

U.S. MARINE CORPS TECHNICAL MANUAL

**ORGANIZATIONAL MAINTENANCE
MANUAL WITH REPAIR PARTS LIST**

FOR

SNIPER RIFLE, 7.62 x 54R MM, SVD

NSN: 1005-LL-MC9-2796

P/N TBD



**MARINE CORPS SYSTEMS COMMAND
QUANTICO, VA 22134-6050**

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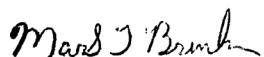
DEPARTMENT OF THE NAVY
Headquarters, U.S. Marine Corps
Washington, DC 20380-0001

31 May 2010

1. This Technical Manual (TM), authenticated for Marine Corps use and effective upon receipt, provides information on the sniper rifle, 7.62 x 54R mm, SVD, NSN: 1005-LL- MC9-2796, TM 8370-50097-IN/16.
2. Submit notice of discrepancies or suggested changes on NAVMC 10772. The NAVMC may be submitted via the Internet using website <https://pubs.ala.usmc.mil/front.htm>, scrolling down to the NAVMC 10772 Tracking Program and following instructions provided. It may also be submitted by electronic mail to mbmatcomarcorlogbases@logcom.usmc.mil, or by mailing a paper copy of NAVMC 10772 addressed to: Commanding General, Marine Corps Systems Command, Attn: Assistant Commander Acquisition and Logistics (LOG/TP), 814 Radford Blvd., Suite 20343, Albany, Georgia 31704-0343.

BY DIRECTION OF THE COMMANDANT OF THE MARINE CORPS

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LIST OF EFFECTIVE PAGES/WORK PACKAGES

Date of issue for original manual is: 31 May 2010.

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WARNING SUMMARY

This warning summary contains safety warnings that must be understood and applied during operation and maintenance of this equipment. Failure to observe these precautions could result in serious injury or death to personnel.

**WARNING**

When using carbon removing compound, wearing gloves and protective equipment is required. Avoid contact with skin. If carbon removing compound comes in contact with skin, wash thoroughly with running water, and apply a lanolin-based cream, if possible. Failure to follow this warning may cause injury or death to personnel.

**WARNING**

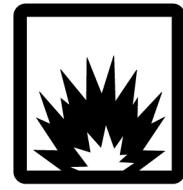
Ensure that the weapon is unloaded and that the selector lever is set on SAFE before performing the following procedures. Do not keep live ammunition near the work area. Failure to follow these warnings may cause injury or death to personnel.

**WARNING**

Before starting an inspection, be sure to clear the weapon. Do not pull the trigger until the weapon has been cleared. Inspect the chamber to ensure that it is empty and no ammunition is in position to be chambered. DO NOT keep live ammunition in the work area. Failure to follow this warning may cause injury or death to personnel.

**WARNING**

Ensure the weapon is clear prior to performing the following function checks. If the weapon fails any of the following function checks, attempt to repair. If beyond repair, replace the weapon.

**WARNING**

If trigger is hard (heavy) or very easy (light) to pull, replace springs or hammer. Failure to follow this warning may cause injury or death to personnel.

**WARNING**

Improper cleaning methods and use of unauthorized cleaning solvents may injure personnel and damage equipment. Refer to TM 9-247, *Materials Used for Cleaning, Preserving, Abrading, and Cementing Ordnance Materials and Related Materials Including Chemicals*, for correct information.

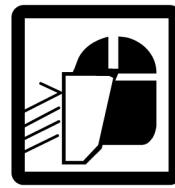
Cloths or rags saturated with solvent cleaning compound must be disposed of following authorized facilities' procedures.

**WARNING**

Eye shields must be worn when cleaning with a wire brush. Flying rust and metal particles may cause injury to personnel.

**WARNING**

Particles blown by compressed air are hazardous. Use a maximum of 30 psi (207 kPa) when cleaning components. DO NOT exceed 15 psi (103 kPa) nozzle pressure when drying parts with compressed air. Failure to follow this warning may result in injury to personnel.

**WARNING**

DO NOT direct compressed air against human skin. Make sure air stream is directed away from user and other personnel in the area. To prevent injury, user must wear protective goggles or a face shield when using compressed air. Failure to follow this warning may result in injury to personnel.

**WARNING**

Always assume that every weapon is loaded until it is determined through visual and physical inspection that it is not. Procedures for clearing and unloading the weapon are outlined in TM 8370-50037-OR/15. Failure to follow this warning may cause injury or death to personnel.

**WARNING**

DO NOT interchange bolt assemblies from one weapon to another. Failure to follow this warning may cause injury or death to personnel.

**WARNING**

The firing pin is under spring tension (in some SVD models). Use caution when removing the firing pin retaining pin to prevent injury to personnel.

**WARNING**

The extractor is under spring tension. Use care to prevent it from flying free.



WARNING

DO NOT interchange firing pin with another bolt assembly without gaging for firing pin protrusion. Refer to WP 0023.



WARNING

DO NOT interchange bolt assemblies from one weapon to another without gaging for the proper headspace. Refer to WP 0023 00. Failure to follow this warning may cause injury or death to personnel.



WARNING

The elevation slide assembly is under spring tension. Use care when working on spring-loaded parts.



WARNING

Ensure the weapon is cleared before performing these procedures. Failure to follow this warning may cause injury or death to personnel.

WARNING

The PSO-1 optical sight contains nitrogen. No maintenance will be performed.



WARNING

DO NOT interchange bolt assemblies from one weapon to another without checking for proper headspace. Failure to follow this warning may result in injury or death to personnel.



WARNING

The magazine spring is under pressure.



WARNING

Ensure the weapon is clear prior to performing the following function check. Refer to TM 8370-50097-OR/15. If the weapon fails any part of the following function check, continued use may cause injury or death to personnel.



WARNING



If the trigger is hard (heavy) or very easy (light) to pull, replace the springs or hammer. Failure to follow this warning may cause injury or death to personnel.



WARNING

Before stowing a weapon, be sure to clear the weapon (TM 8370-50097-OR/15). Inspect the chamber to ensure it is empty and that no ammunition is in position to be chambered. Failure to follow this warning may cause injury or death to personnel.



WARNING

DO NOT store the weapon with live ammunition in either the chamber or magazine. Always assume every weapon is loaded until it is determined through visual and physical inspection that it is not. Procedures for clearing and unloading the weapon are outlined in TM 8370-50097-OR/15. Failure to follow these warnings may cause injury or death to personnel.



WARNING

DO NOT keep live ammunition near the work area. Failure to follow this warning may cause injury or death to personnel.

CAUTION SUMMARY

CAUTION

Repaired items must be thoroughly cleaned to remove metal chips and abrasives to prevent them from entering working parts of the weapon. Failure to comply could cause damage to equipment.

CAUTION

When cleaning the PSO-1 telescopic sight, ensure that it is held with the lens facing down to avoid scratching the lens.

CAUTION

Do not use dry cleaning solvent on wood or synthetic parts.

CAUTION

When pushing the bolt closed during headspace gaging, be sure to use LIGHT pressure. Failure to do so may damage the weapon or gage.

CAUTION

DO NOT put the headspace rim gage in the chamber.

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TECHNICAL MANUAL
TM 8370-50097-IN/16

MARINE CORPS SYSTEMS COMMAND
Quantico, VA, MAY 2010

U.S. MARINE CORPS TECHNICAL MANUAL

**ORGANIZATIONAL MAINTENANCE MANUAL
 WITH REPAIR PARTS LIST**

FOR

SNIPER RIFLE, 7.62 MM, SVD

NSN: 1005-LL-MC9-2796

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HOW TO USE THIS MANUAL

INTRODUCTION

1. This manual contains operating instructions, maintenance instructions, troubleshooting procedures, and supporting information for the sniper rifle, 7.62 mm, SVD. It is divided into five chapters.
2. This manual is written in work package format:
 - a. Chapters divide the manual into major categories of information (e.g., *General Information, Equipment Description and Data, and Principles of Operation*).
 - b. Each chapter is divided into work packages, which are identified by a 6-digit number (e.g., 0001 00, 0002 00) located at the upper right-hand corner of each page. The work package page number (e.g., 0001 00-1, 0001 00-2) is located centered at the bottom of each page.
 - c. If a change package is issued to this manual, added work packages will use the 5th and 6th digits of their numbers to indicate new material. For instance, work packages inserted between WP 0001 00 and WP 0002 00 are numbered WP 0001 01, WP 0001 02.
3. Read through this manual to become familiar with its organization and contents before attempting to operate or maintain the weapon.

CONTENTS OF THIS MANUAL

1. A *Warning Summary* and *Caution Summary* are located at the beginning of this manual. Become familiar with these warnings and cautions before operating or maintaining the weapon.
2. A *Table of Contents*, located in the front of this manual, lists all chapters and work packages in the publication. If you cannot find what you are looking for in the *Table of Contents*, refer to the alphabetical *Index* at the back of the manual.
3. Chapter 1, *General Information, Equipment Description and Data, and Principles of Operation*, provides general information about the equipment, identifies the major components and systems, and describes how the components and systems work.
4. Chapter 2, *Troubleshooting*, provides symptoms and procedures pertaining to failures that could occur during operation of the sniper rifle, 7.62 mm, SVD.
5. Chapter 3, *Organizational Maintenance*, which includes *Preventive Maintenance Checks and Services (PMCS)*, and *General Maintenance Instructions*, provide procedures to maintain the sniper rifle, 7.62 mm, SVD at the maintenance level.
6. Chapter 4, *Auxiliary Equipment*, which includes information on the equipment used with the sniper rifle, 7.62 mm, SVD.
7. Chapter 5, *Supporting Information*, provides information pertaining to references, components listing, an expendable and durable items list, and repair parts information.
8. An alphabetical *Index* is located at the back of this manual.

FEATURES OF THIS MANUAL

1. This manual contains information on operating and maintaining the sniper rifle, 7.62 mm, SVD.
2. WARNINGS, CAUTIONS, NOTES, subject headings, and other important information are highlighted in **BOLD** print as a visual aid.

WARNING

A WARNING indicates a hazard which may result in injury or death to personnel.

CAUTION

A CAUTION is a reminder of safety practices or directs attention to usage practices that may result in damage to equipment.

NOTE

A NOTE is a statement containing information that will make the procedures easier to perform.

3. Statements and words of particular interest may be printed in CAPITAL LETTERS to create emphasis.
4. Within a procedural step, reference may be made to another chapter or work package in this manual or to another manual. These references indicate where you should look for more complete information. If you are told: "Disassemble the weapon (WP 0010 00)", go to WP 0010 00 in this manual for instructions.
5. Illustrations are placed after, and as close to, the procedural steps to which they apply. Callouts placed on art are text or numbers.

END OF WORK PACKAGE

CHAPTER 1

GENERAL INFORMATION, EQUIPMENT DESCRIPTION AND DATA, AND PRINCIPLES OF OPERATION

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GENERAL INFORMATION

SCOPE

1. **Type of Manual.** Organizational Maintenance Manual for the 7.62 x 54R mm, SVD sniper rifle. Basic operator's procedures are outlined in TM 8370-50097-OR/15, *Operator's Manual with Components List for Sniper Rifle, 7.62 x 54R MM, SVD*.
2. **Equipment Name and Model Number.** The weapon, 7.62 x 54R mm, SVD sniper rifle (NSN: 1005-LL-MC9-2796).
3. **Purpose of Equipment.** To provide personnel with the offensive and defensive capability to engage targets with small arms precision fire.

MAINTENANCE FORMS, RECORDS, AND REPORTS

The Marine Corps forms and procedures used for equipment maintenance will be those prescribed by the current edition of TM 4700-15/1, *Ground Equipment Record Procedures*.

CORROSION PREVENTION AND CONTROL

Corrosion prevention on any piece of equipment is important and it is critically important for the safe functioning of a weapons system. Carry out corrosion prevention and control (CPC) in accordance with TM 4795-12/1, *Organizational Corrosion Prevention and Control Procedures for USMC Equipment*.

While corrosion is typically associated with the rusting of metals, it can also include the deterioration of other materials such as rubber, wood, and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

DESTRUCTION INSTRUCTION TO PREVENT ENEMY USE

Follow the procedures in TM 750-244-7, *Procedures for Destruction of Equipment*, for the destruction of the SVD sniper rifle to prevent enemy use.

PREPARATION FOR STORAGE AND SHIPMENT

1. Follow the procedures outlined in MCO P4450.7, *Preparation for Storage*. Prior to storing or shipping, ensure that the weapon is thoroughly cleaned as outlined in WP 0019 00.
2. Storage Procedures.
 - a. Ensure that the weapon is void of live ammunition.
 - b. Inspect the chamber and bore while applying a medium coat of Cleaner, Lubricant, and Preservative (CLP).
 - c. Apply a light coat of CLP over all the weapon's metal surfaces to provide corrosion protection and extra lubrication. Ensure that the CLP does not come into contact with any optical devices including telescopic sight pieces.

QUALITY OF MATERIAL

All material used to repair, replace, or modify the weapon must meet the requirements of this manual. If the quality of material requirements is not stated in this manual, the material must meet the requirements of the drawings, standards, specifications, or approved engineering change proposals applicable to the subject equipment.

SAFETY, CARE, AND HANDLING

Read the *Warning Summary* and *Caution Summary* at the front of this manual and pay close attention to the warnings and cautions that appear where special care and attention are required. For ammunition care and handling, refer to PAM 385-64, *Ammunition and Explosives Safety Standards*.

LIST OF ABBREVIATIONS/ACRONYMS

| Abbreviation/Acronym | Definition |
|----------------------|--|
| be | Bale |
| bk | Book |
| bt | Bottle |
| CAGEC | Commercial and Government Entity Code |
| CLP | Cleaner, Lubricant, and Preservative |
| cn | Can |
| ea | Each |
| kt | Kit |
| LAW | Lubricant, Arctic, Weapons |
| MI | Modification Instructions |
| NSN | National Stock Number |
| oz | Ounce |
| pt | Pint |
| PMCS | Preventive Maintenance Checks and Services |
| psi | Pounds per Square Inch |
| qt | Quart |
| ROD | Report of Discrepancy |
| RPL | Repair Parts List |
| SMR | Source, Maintenance and Recoverability |
| SRA | Specialized Repair Activity |
| TB | Technical Bulletin |
| TMDE | Test, Measuring, and Diagnostics Equipment |
| U/M | Unit of Measure |
| UOC | Usable on Codes |
| VCI | Volatile Corrosion Inhibitor |

ISSUE AND RECOVERY OF INDIVIDUAL WEAPONS

Weapons will be issued and recovered in the same manner as other individual weapons. NAVMC 10576, *Memorandum Receipt for Individual Weapons and Accessories*, will be used as the issue document. NAVMC 10520, *Weapon Custody Receipt Card*, will be used when the weapon is drawn from the armory for use. Detailed instructions for using these forms are contained in TM 4700-15/1, *Ground Equipment Record Procedures*.

END OF WORK PACKAGE

EQUIPMENT DESCRIPTION AND DATA

DESCRIPTION

1. **General.** The 7.62 mm Dragunov sniper rifle (SVD) is a gas-operated, magazine-fed, air-cooled weapon fired from the closed bolt position. The SVD sniper rifle was developed in the Soviet Union, and is manufactured in Russia. The SVD sniper rifle is equipped with an adjustable gas regulator forward of the receiver assembly to divert expanding gas from escaping the bore, reducing recoil and allowing for a much steadier shot.
2. **Capabilities.** Provides personnel the offensive and defensive capability to engage targets with direct small arms precision fire.
3. **Left Side View.** The left side view of the weapon displays the flash suppressor, front sling swivel, gas tube, top cover, magazine release, PSO-1 telescopic sight, pistol grip, and rear sling swivel. Refer to Figure 1.

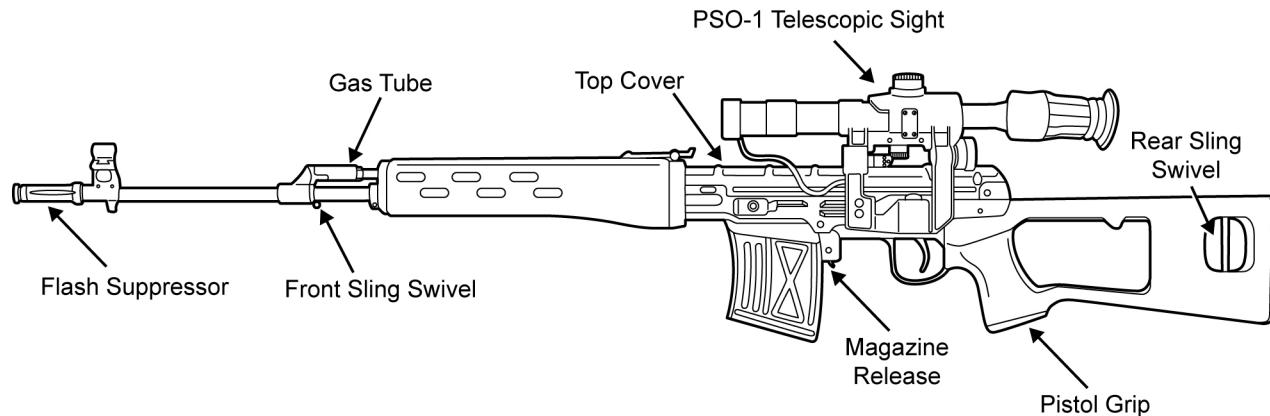


Figure 1. Left Side of SVD Sniper Rifle.

4. **Right Side View.** The right side view of the weapon reveals the buttstock, top cover latch, trigger, selector lever, magazine, charging handle, rear sight, gas regulator, and front sight. Refer to Figure 2.

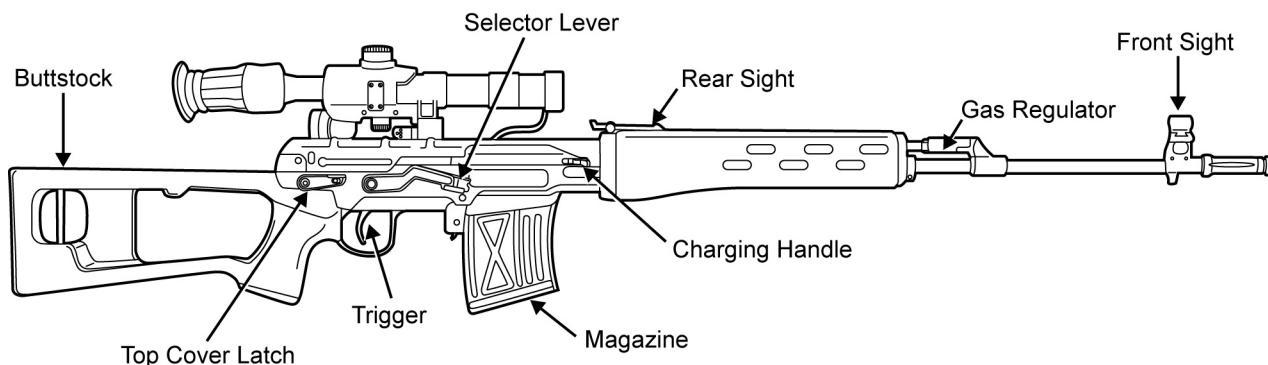


Figure 2. Right Side of SVD Sniper Rifle.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

1. **Receiver and Barrel Assembly.** Includes the flash suppressor, barrel, gas block, gas regulator, handguards, operating rod and spring, selector lever, buttstock, and front and rear sights. The trigger mechanism, bolt carrier group, top cover, magazine, and telescopic sight are attached to the barrel and receiver assembly.
2. **Bolt Carrier Group.** Is housed in the receiver and includes the bolt carrier and bolt assembly. It provides the feeding, stripping, chambering, firing, and extraction of cartridges using the projectile propelling gas for power.
3. **Buttstock Assembly.** Is located on the rear of the receiver. It includes the pistol grip, cheek pad, rear sling swivel, and butt plate.
4. **Magazine Assembly.** Has a 10 cartridge capacity. It includes the follower and magazine spring.
5. **Trigger Mechanism.** Is installed in the bottom of the receiver and is secured by the selector lever. It houses the trigger, sear, safety sear, mainspring, hammer, and magazine release.
6. **PSO-1 Telescopic Sight.** Mounts onto the optical mounting rail on the left side of the receiver assembly and provides a four-power telescopic view of the target. Its elevation and windage knobs are calibrated for .1 mil increments. The elevation and windage knobs can adjust the point of aim/point of impact out to 1,300 meters.
7. **Top Cover.** Houses the recoil spring, and covers and protects the mechanisms housed in the receiver.

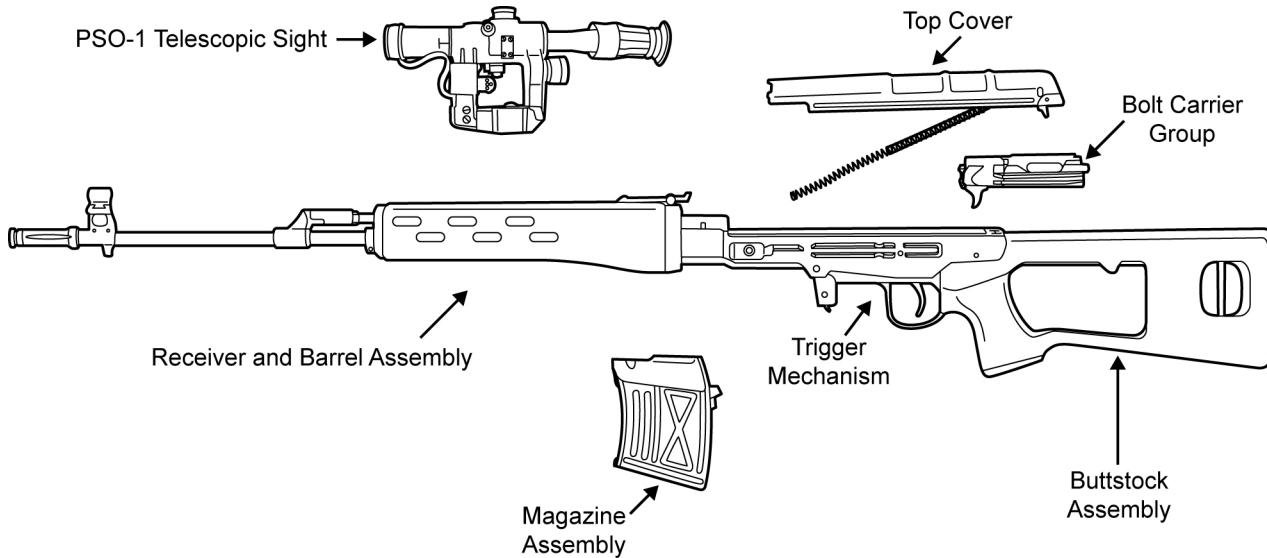


Figure 3. SVD Sniper Rifle Major Components.

EQUIPMENT DATA

Table 1. SVD Sniper Rifle Data.

| SVD Sniper Rifle Data | |
|-------------------------------|---------------------------------------|
| Caliber | 7.62 X 54R mm |
| Weight: | |
| SVD | Approx. 8.21 pounds |
| SVD w/ PSO-1 telescopic sight | Approx. 9.57 pounds |
| Length | |
| SVD | Approx. 48 inches |
| Barrel (w/ flash suppressor) | Approx. 27.25 inches |
| Magazine capacity | 10 rounds |
| Safety | Manual lever |
| Rifling | 1 turn in 10 inches, right-hand twist |
| Chamber pressure | Approx. 57,000 psi |
| Modes of fire | Semi-automatic only |
| Maximum effective range | Approx. 1,200 meters with open sight |
| Muzzle velocity | Approx. 2,723 feet per second |

Table 2. PSO-1 Telescopic Sight Data.

| PSO-1 Telescopic Sight Data | |
|------------------------------------|---|
| Weight | Approx. 1.36 pounds |
| Length | Approx. 14.8 inches |
| Optic | 4 X 24, point of aim, point of impact |
| Sight adjustments: | |
| Windage | Adjustable in .1 mil increments |
| Elevation | Adjustable in .1 mil increments |
| Maximum effective range | Approx. 1,300 meters with optical sight |

ASSOCIATED EQUIPMENT

Refer to the *Supply System Responsibility Items (SSRI)* list in TM 8370-50097-OR/15 for a list of the associated equipment.

END OF WORK PACKAGE

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PRINCIPLES OF OPERATION

GENERAL

The 7.62 x 54R mm SVD sniper rifle:

1. Is gas-operated.
2. Fires in semi-automatic (SEMI) mode only.
3. Fires in the closed bolt position.

CYCLE OF OPERATION

The cycle of operation is similar in all small arms. Knowledge of what happens during the cycle of operations will help both the operators and the maintainers understand the cause of and remedy for various stoppages.

NOTE

The cycle of operation begins at any of the following eight steps.

1. **Eight Steps**. The cycle of operation contains eight steps:
 - a. Feeding
 - b. Chambering
 - c. Locking
 - d. Firing
 - e. Unlocking
 - f. Extracting
 - g. Ejecting
 - h. Cocking
2. **Eight Steps**. These steps are explained below, together with a brief description of what occurs inside the weapon during each step. Assume that a full magazine is loaded in the weapon.
 - a. **Feeding**. The magazine follower, under spring tension, feeds the top cartridge into the path of the bolt. As the bolt, held in the bolt carrier, is pushed forward by the recoil spring, the bottom of the bolt passes over the lips of the magazine, strips the top cartridge from the magazine, and pushes it into the chamber.
 - b. **Chambering**. Chambering is complete when the cartridge is fully seated in the chamber and the extractor is engaged in the extraction groove at the base of the cartridge.

NOTE

Dirt or debris inside the chamber, or bent, dented, or otherwise faulty ammunition can prevent a cartridge from fully chambering or extracting.

- c. **Locking.** The face of the bolt strikes the rear extension of the barrel and its forward movement is stopped. As the bolt carrier continues forward, the cam recess in the bolt carrier acts on the cam on the bolt causing the bolt to rotate. As the bolt rotates, the locking lugs on the head of the bolt engage the locking recesses in the receiver. Locking is then complete.
- d. **Firing.** The rifle is taken off SAFE to the SEMI position. When the trigger is pulled, it is displaced to the rear along with the trigger bar. The catch of the trigger bar rotates the sear and disengages it from the hammer sear notch. Under tension from the mainspring, the hammer rotates on its pin and strikes the primer, which ignites the percussive component. The resulting flame penetrates through the two flash holes in the cartridge base toward the propellant charge and ignites the propellant. The round is fired. The bullet is pushed down the barrel by the expanding propellant gases.
- e. **Unlocking.** As the round passes through the barrel and past the gas block, some of the gas (under high pressure) expands into the gas tube. The gas pushes the gas piston that in turn presses on the operating rod. The operating rod compresses its spring, strikes the forward surface of the bolt carrier, and drives the bolt carrier with the bolt to the rear. As the bolt carrier is pushed to the rear, the cam recess in the bolt carrier acts on the cam on the bolt, causing the bolt to rotate. As the bolt rotates, the locking lugs on the head of the bolt disengage from the locking recesses in the receiver. Unlocking is then complete.
- f. **Extracting.** As the bolt continues moving to the rear, the bolt extractor holds the base of the cartridge against the bolt. Extraction is complete when the front of the cartridge casing clears the rear of the chamber.
- g. **Ejecting.** As the bolt moves to the rear, the empty cartridge case is held by the extractor. The base of the cartridge strikes the fixed ejector, and the extractor serves as a pivot point for the cartridge, which is deflected out of the ejection opening of the receiver.
- h. **Cocking.** Cocking occurs when the hammer is forced into position for firing the next cartridge. This happens as the bolt and the bolt carrier travel toward the rear. The rear end of the bolt carrier forces the hammer back and rides over it. The hammer is caught by the sear if the trigger is still held to the rear and by the trigger hook if the trigger has been released.

END OF WORK PACKAGE

CHAPTER 2

TROUBLESHOOTING

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TROUBLESHOOTING INTRODUCTION

GENERAL

This section contains troubleshooting information for locating and correcting malfunctions that may occur with the SVD sniper rifle.

The *Troubleshooting Symptom Index* (WP 0005 00) is a quick reference aid in troubleshooting the weapon. Table 1 in *Troubleshooting Procedures* (WP 0006 00) lists possible malfunctions, tests, or inspections, and corrective actions taken for troubleshooting the SVD sniper rifle at the organizational level. Perform the tests, inspections, and corrective actions in the order shown in the table, except when the malfunction and cause are obvious. This manual cannot list all of the possible malfunctions, tests or inspections, and corrective actions of the SVD sniper rifle.

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TROUBLESHOOTING SYMPTOM INDEX

INTRODUCTION

Refer to Table 1 in *Troubleshooting Procedures* (WP 0006 00) for malfunctions, tests or inspections, and corrective actions. The malfunction/symptom index below is a quick reference of the malfunctions that are covered in the table.

| <u>Malfunction/Symptom</u> | <u>Troubleshooting Procedure Page</u> |
|---|---------------------------------------|
| 1. Failure of Magazine to Lock in Weapon | 0006 00-1 |
| 2. Failure to Feed | 0006 00-2 |
| 3. Failure to Chamber | 0006 00-2 |
| 4. Failure to Lock | 0006 00-2 |
| 5. Failure to Fire | 0006 00-4 |
| 6. Failure to Unlock | 0006 00-6 |
| 7. Failure to Extract | 0006 00-6 |
| 8. Failure to Eject | 0006 00-7 |
| 9. Failure to Cock | 0006 00-8 |
| 10. Short Recoil..... | 0006 00-9 |
| 11. Weapon Cannot be Zeroed..... | 0006 00-10 |
| 12. Weapon Fires with Selector Lever on SAFE..... | 0006 00-11 |

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TROUBLESHOOTING PROCEDURES**GENERAL**

Table 1 lists possible malfunctions, tests or inspections and corrective action taken for troubleshooting the SVD sniper rifle. All corrective actions are at the organizational level.

Table 1. Troubleshooting Procedures.

| Malfunction/Symptom | Test or Inspection | Corrective Action |
|---|---|---|
| 1. Failure of magazine to lock in weapon. | <ul style="list-style-type: none"> a. Bent or deformed magazine. Refer to Figure 1. b. Damaged or deformed locking recess at rear of magazine. Refer to Figure 1. c. Deformed locking tab at top front of magazine. Refer to Figure 1. | <ul style="list-style-type: none"> Replace magazine. Replace magazine. Replace magazine. |

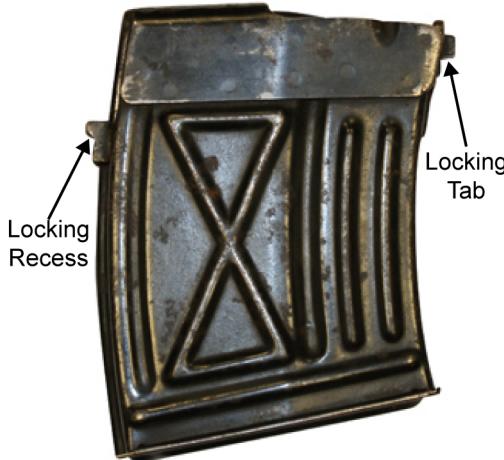


Figure 1. Magazine.

| | | |
|--|---|--|
| | <ul style="list-style-type: none"> d. Excessive dirt in magazine well or in magazine. e. Ammunition not fully seated in magazine. f. Magazine not fully seated. g. Damaged or deformed magazine. Refer to Figure 1. | <ul style="list-style-type: none"> Clean and lubricate magazine well or magazine. Refer to TM 8370-50097-OR/15. Remove ammunition and reload properly. Refer to TM 8370-50097-OR/15. Remove and install magazine properly. Ensure the magazine release clicks. Replace magazine. |
|--|---|--|

Table 1. Troubleshooting Procedures - Continued.

| Malfunction/Symptom | Test or Inspection | Corrective Action |
|--|--|---|
| 1. Failure of magazine to lock in weapon - Cont. | h. Magazine release dirty, corroded, or has no spring tension. | Clean the magazine release. Attempt to repair the magazine release or replace the weapon. |
| 2. Failure to feed. | a. Ammunition improperly loaded in magazine. | Reload ammunition properly. |
| | b. Defective or dirty magazine. | Clean or replace magazine as necessary. |
| | c. Damaged or dirty ammunition. | Clean or replace ammunition. |
| | d. Defective magazine release. | Attempt to repair magazine release. |
| | e. Short recoil. | Refer to Short Recoil in this table (#10). |
| 3. Failure to chamber. | a. Dirty or defective ammunition. | Clean ammunition with dry cloth or replace. |
| | b. Dirty chamber. Refer to Figure 2. | Clean barrel and chamber. |
| | c. Short recoil. | Refer to Short Recoil in this table (#10). |
| 4. Failure to lock. | a. Ammunition not properly seated in chamber. | Ensure ammunition is seated fully into chamber. |
| | b. Dirty breech or chamber. | Clean breech or chamber as necessary. |
| | c. Defective or improperly assembled extractor. | Replace or properly assemble extractor. Refer to WP 0011 00. |



Figure 2. Chamber.

Table 1. Troubleshooting Procedures - Continued.

| Malfunction/Symptom | Test or Inspection | Corrective Action |
|----------------------------|--|--|
| 4. Failure to lock - Cont. | d. Damaged or dirty bolt assembly. Refer to Figure 3. | Clean and lubricate or repair/replace bolt assembly as necessary. Refer to WP 0011 00. |
| |  | |
| | e. Damaged receiver. f. Burred or unserviceable bolt. Refer to Figure 4. | Replace weapon. Remove burrs or replace bolt. Refer to WP 0011 00. |
| |  | |
| | g. Burred or unserviceable bolt carrier. Refer to Figure 5. | Remove burrs or replace bolt carrier. Refer to WP 0011 00. |
| |  | |

Figure 5. Bolt Carrier.

Table 1. Troubleshooting Procedures - Continued.

| Malfunction/Symptom | Test or Inspection | Corrective Action |
|----------------------------|--|--|
| 4. Failure to lock - Cont. | h. Dirty or bent operating rod. Refer to Figure 6. | Clean or replace operating rod. Refer to WP 0010 00. |
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Table 1. Troubleshooting Procedures - Continued.

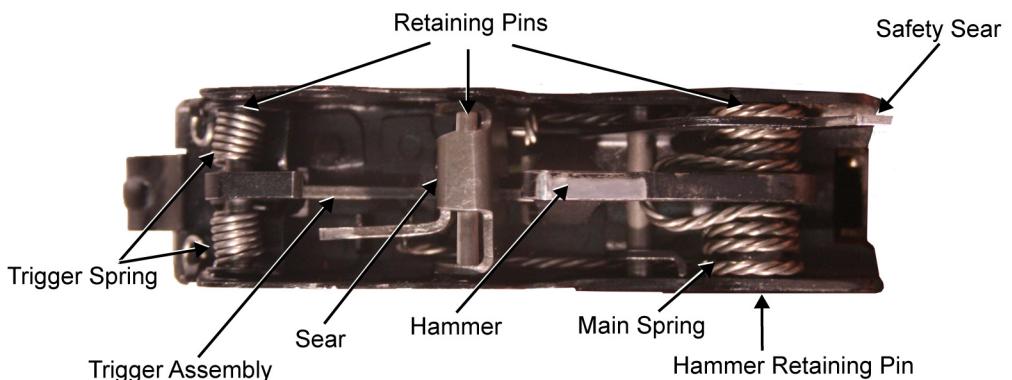
| Malfunction/Symptom | Test or Inspection | Corrective Action |
|----------------------------|---|--|
| 5. Failure to fire - Cont. | g. Weak or broken main spring. Refer to Figure 9. | Replace main spring. Refer to WP 0013 00. |
| | |  |
| | h. Carbon buildup on firing pin and in bolt body. Refer to Figure 10. | Clean firing pin and bolt body. |
| | |  |
| | i. Improperly assembled trigger mechanism. Refer to Figure 11. | Properly assemble trigger mechanism. Refer to WP 0013 00. |
| | |  |

Figure 11. Trigger Mechanism.

Table 1. Troubleshooting Procedures - Continued.

| Malfunction/Symptom | Test or Inspection | Corrective Action |
|------------------------|--|---|
| 6. Failure to unlock. | <ul style="list-style-type: none"> a. Unserviceable cartridge. b. Burred bolt assembly or bolt carrier. c. Short recoil. d. Defective extractor retaining pin, extractor, and/or extractor spring. Refer to Figure 12. | <p>Check ammunition, replace ammunition as necessary.</p> <p>Remove burrs.</p> <p>Refer to Short Recoil in this table (#10).</p> <p>Replace the extractor retaining pin, extractor, and/or extractor spring. Refer to WP 0011 00.</p> |
| 7. Failure to extract. | <ul style="list-style-type: none"> d. Check the barrel for a badly pitted chamber. e. Short recoil. a. Bent, frozen, or dirty extractor or bolt assembly. b. Ruptured or damaged cartridge in chamber. | <p>Replace receiver and barrel assembly.</p> <p>Refer to Short Recoil in this table (#10).</p> <p>Remove, clean, and replace extractor or bolt assembly as necessary. Refer to WP 0011 00.</p> <p>Remove cartridge or defective case.</p> |

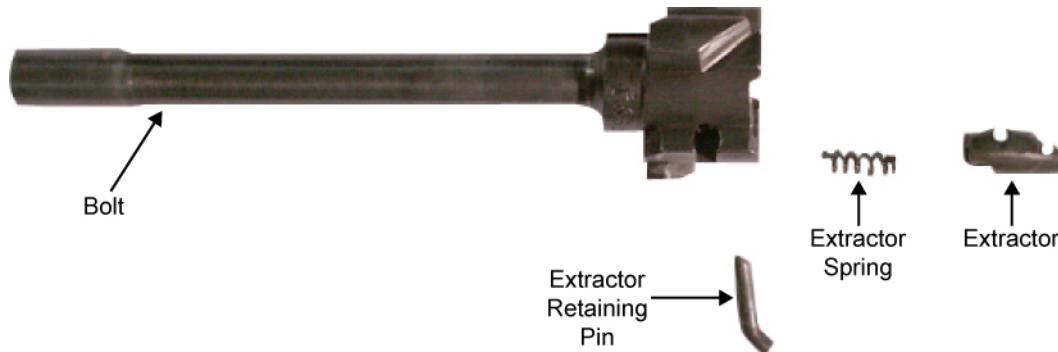


Figure 12. Bolt and Extractor Assembly Components.

Table 1. Troubleshooting Procedures - Continued.

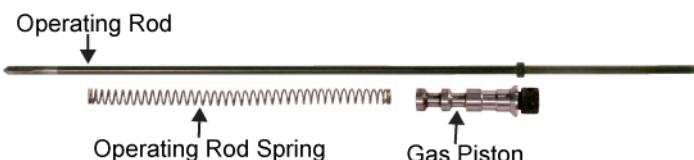
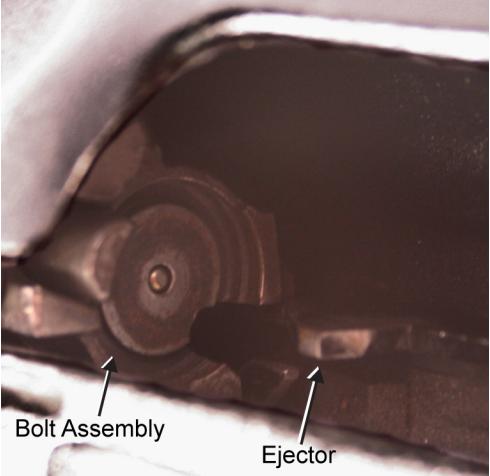
| Malfunction/Symptom | Test or Inspection | Corrective Action |
|------------------------------|---|---|
| 7. Failure to extract- Cont. | c. Dirty or damaged gas port, gas piston, operating rod, or operating rod spring. Refer to Figure 13. | Clean or replace. Refer to WP 0010 00. |
| | |  |
| 8. Failure to eject. | a. Defective or dirty ejector or bolt assembly. Refer to Figure 14. | Clean or repair ejector or bolt assembly as necessary. Refer to WP 0011 00. |
| | b. Damaged extractor or extractor spring. c. Short recoil. |  <p>Replace damaged extractor or extractor spring as necessary. Refer to WP 0011 00.</p> <p>Refer to Short Recoil in this table (#10).</p> |

Table 1. Troubleshooting Procedures - Continued.

| Malfunction/Symptom | Test or Inspection | Corrective Action |
|---------------------|--|---|
| 9. Failure to cock. | <ul style="list-style-type: none"> a. Defective or dirty trigger mechanism. b. Dirty, worn, or broken hammer. Refer to Figure 15. c. Dirty, worn, or broken trigger assembly. Refer to Figure 15. d. Dirty, worn, or broken sear. Refer to Figure 15. e. Dirty, worn, or broken safety sear. Refer to Figure 15. f. Weak or broken main spring. Refer to Figure 15. g. Weak or broken trigger spring. Refer to Figure 15. | <p>Clean or repair trigger mechanism. Refer to WP 0013 00.</p> <p>Clean or replace the hammer. Refer to WP 0013 00.</p> <p>Clean or replace the trigger assembly. Refer to WP 0013 00.</p> <p>Clean or replace the sear. Refer to WP 0013 00.</p> <p>Clean or replace the safety sear. Refer to WP 0013 00.</p> <p>Replace the main spring. Refer to WP 0013 00</p> <p>Replace the trigger spring. Refer to WP 0013 00.</p> |
| |  <p>The diagram illustrates the components of a trigger mechanism. It shows the Safety Sear (a curved metal piece) on the left, the Hammer (a long, thin metal piece) in the center, the Trigger Assembly (a lever-like part) above the hammer, the Main Spring (a coiled metal spring) below the hammer, the Sear (a small metal piece) in the center, and the Trigger Spring (a coiled metal spring) on the right.</p> | <p>h. Trigger mechanism improperly assembled. Properly assemble trigger mechanism. Refer to WP 0013 00.</p> |

Table 1. Troubleshooting Procedures - Continued.

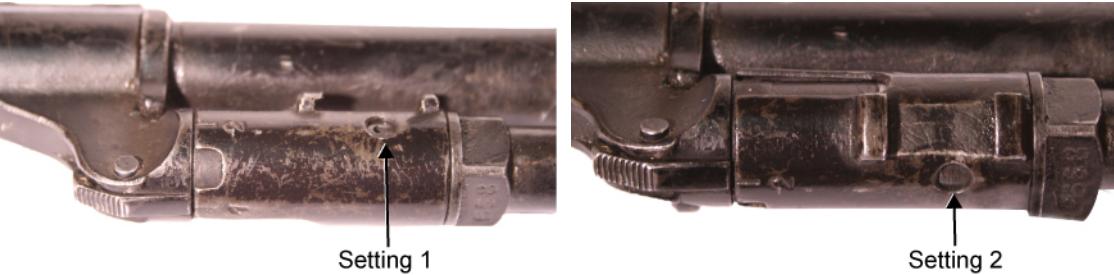
| Malfunction/Symptom | Test or Inspection | Corrective Action |
|---|---|--|
| 10. Short recoil. | <ul style="list-style-type: none"> a. Dirty gas block, gas tube, gas piston, operating rod, operating rod spring, recoil spring and guide rod assembly, receiver, or bolt carrier, b. Gas regulator on the wrong setting. Refer to Figure 16. | <p>Clean and lubricate with CLP. Refer to WP 0009 00.</p> <p>Rotate the gas regulator to adjust the setting. Refer to TM 8370-50097-OR/15.</p> <p>NOTE</p> <p>Setting 2 is used for high elevation, extreme cold, and semi-automatic operation. Setting 1 is used for manual operation.</p> |
|  | | |
| <p>Figure 16. Gas Regulator in Settings 1 and 2.</p> <ul style="list-style-type: none"> c. Excessive gas leakage caused by defective gas tube or gas block and pitting due to the use of corrosive ammunition. Refer to Figure 17. | | |
| |  | <p>Replace the gas tube. If the gas block is defective, replace the weapon. Refer to WP 0012 00.</p> |
| | <ul style="list-style-type: none"> d. Defective recoil spring and guide rod assembly. | <p>Attempt to repair recoil spring and guide rod assembly. If unable to repair, replace the top cover assembly.</p> |

Table 1. Troubleshooting Procedures - Continued.

| Malfunction/Symptom | Test or Inspection | Corrective Action |
|------------------------------|--|--|
| 10. Short recoil - Cont. | <p>e. Defective operating rod spring and operating rod.</p> <p>f. Defective or broken gas piston.</p> | <p>Replace operating rod spring and operating rod. Refer to WP 0010 00.</p> <p>Replace the gas piston. Refer to WP 0010 00.</p> |
| 11. Weapon cannot be zeroed. | <p>g. Carbon build-up in barrel/gas block.</p> <p>a. Defective front sight post or front sight aperture. Refer to Figure 18.</p> | <p>Remove carbon build-up by soaking the barrel in carbon removing compound.</p> <p>Replace the front sight post and/or the front sight aperture. Refer to WP 0012 00.</p> |

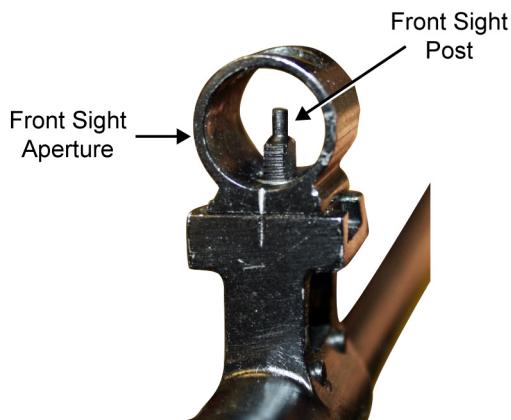


Figure 18. Front Sight Post and Front Sight Aperture.

| | |
|----------------------------------|-----------------|
| b. Defective or bent barrel. | Replace weapon. |
| c. Barrel loose in the receiver. | Replace weapon. |

Table 1. Troubleshooting Procedures - Continued.

| Malfunction/Symptom | Test or Inspection | Corrective Action |
|--|--|--|
| 11. Weapon cannot be zeroed - Cont . | d. Defective rear sight assembly. e. Improperly assembled rear sight. f. Defective PSO-1 telescopic sight. | Attempt to repair the rear sight assembly. Replace as necessary. Refer to WP 0012 00. Properly assemble the rear sight. Refer to WP 0012 00. Replace the telescopic sight. |
| 12. Weapon fires with selector lever on SAFE | a. Defective selector lever. Refer to Figure 19. | Replace the selector lever. Refer to WP 0010 00. |



Figure 19. Selector Lever.

| | |
|---|--|
| b. Worn or broken trigger assembly. Refer to Figure 20. | Replace the trigger assembly. Refer to WP 0013 00. |
|---|--|



Figure 20. Trigger Assembly.

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CHAPTER 3

ORGANIZATIONAL MAINTENANCE

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SERVICE UPON RECEIPT**GENERAL**

1. Inspect the weapon for damage incurred during shipment. If the weapon has been damaged, report the damage on SF 364, *Report of Discrepancy (ROD)*.
2. Check the weapon against the packing slip to determine if shipment is complete.
3. Check to determine if the weapon has been modified.
4. Check the weapon for damage upon receipt. Perform limited technical inspection as outlined in Table 1 of this work package.
5. All weapons arriving from country of origin require magnaflex of all metal parts prior to issuing to using units.

Table 1. Service Upon Receipt.

| Location | Item | Action | Remarks |
|------------------|---|--|--|
| Container | 1. SVD sniper rifle 2. Supply System Responsibility Items (SSRI) | a. Remove weapon from container. b. Inspect the weapon for damage incurred during shipment. c. Check the weapon against the packing list to determine if the shipment is complete. Check for missing items. | If the weapon has been damaged, report damage on SF 364. Report all discrepancies. Refer to TM 8370-50097-OR/15. |
| SVD Sniper Rifle | 1. Barrel assembly 2. All parts | If volatile corrosion inhibitor (VCI) is in the barrel, remove and discard. a. Field strip weapon and inspect for missing, damaged, and rusted or corroded parts. b. Clean and lubricate. c. Reassemble. | Refer to TM 8370-50097-OR/15. Refer to TM 8370-50097-OR/15. Refer to TM 8370-50097-OR/15. |

Table 1. Service Upon Receipt - Continued.

| Location | Item | Action | Remarks |
|--------------------------|-------------|---|--|
| SVD Sniper Rifle - Cont. | 3. Magazine | d. Function check. e. Check to determine if the weapon has been modified. f. Conduct initial gaging. Check for positive retention and functioning of bolt catch. | Refer to WP 0019 00. Report all modifications. Refer to WP 0023 00. Refer to TM 8370-50097-OR/15. |

END OF WORK PACKAGE

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)
INCLUDING LUBRICATION INSTRUCTIONS**

GENERAL

This work package contains procedures and instructions necessary to perform Organizational Preventive Maintenance Checks and Services (PMCS), along with disassembly and reassembly procedures required for corrective maintenance for the SVD sniper rifle.

1. **Organizational Maintenance.** Organizational maintenance is performed at the using unit beyond the capabilities of the operator as identified in TM 8370-50097-OR/15. Organizational maintenance is authorized to service, replace, and adjust the parts and assemblies covered in the Organizational portion of this manual.
2. **Intermediate through Depot Maintenance.** This is not applicable to this platform. All maintenance is performed at the organizational level or the weapon is replaced.
3. **Special Tools; Test, Measuring, and Diagnostic Equipment (TMDE); and Support Equipment.** Special tools and TMDE required for support are listed in WP 0027 00. There are no fabricated tools for this weapon.
4. **Repair Parts.** Repair parts are listed and illustrated in WP 0029 00.



WARNING

Ensure that the weapon is unloaded and that the selector lever is set on SAFE before performing the following procedures. Do not keep live ammunition near the work area. Failure to follow these warnings may cause injury or death to personnel.

NOTE

PMCS are to be performed every 90 days to keep the weapon ready for use. If the weapon has not been used for 90 days, PMCS described in the operator's manual (TM 8370-50097-OR/15) should also be performed.

Solid film lubricant (SFL) is authorized to be used as a touch up for the exterior protective finish on the SVD sniper rifle.

5. **General.** The PMCS procedures are contained in the following table. They are arranged in logical sequence requiring a minimum amount of time and motion on the part of the persons performing them and are arranged so that there will be minimum interference between the persons performing simultaneous checks on the same end item.
6. **Item Number Column.** This column describes checks and services numbered in disassembly sequence.
7. **Interval Column.** This column states the designated interval when each check is to be performed.
8. **Item to Check/Service Column.** This column lists the items to be checked or serviced.

9. **Procedure Column.** This column contains a brief description of the procedure by which the check is to be performed. It contains all the information required to accomplish the checks and services.

10. **Not Fully Mission Capable if Column.** This column states which faults will prevent the weapon from being capable of performing its primary mission. The weapon should not be used if it meets any of the faults listed in this column.

11. **Other Table Entries.** Observe all WARNINGS, CAUTIONS, and NOTES.

Table 1. Preventive Maintenance Checks and Services for the SVD Sniper Rifle.

| Item No. | Interval | Item to Check/Service | Procedure | Not Fully Mission Capable If: |
|----------|----------|-----------------------|--|-------------------------------|
| | | |  <p>WARNING</p> <p>Before starting an inspection, be sure to clear the weapon. Do not pull the trigger until the weapon has been cleared. Inspect the chamber to ensure that it is empty and no ammunition is in position to be chambered. DO NOT keep live ammunition in the work area. Failure to follow these warnings may cause injury or death to personnel.</p> <p>NOTE</p> <p>An inactive weapon is a weapon that has been stored in an arms room for a period of 90 days without use. Inactive weapons should receive quarterly PMCS unless inspection reveals more frequent servicing is necessary.</p> <p>If the unit armorer detects corrosion on a weapon prior to the end of the 90 day period, the PMCS should be performed immediately.</p> <p>SFL is the authorized touch up for the SVD sniper rifle.</p> | |

Table 1. Preventive Maintenance Checks and Services for the SVD Sniper Rifle - Continued.

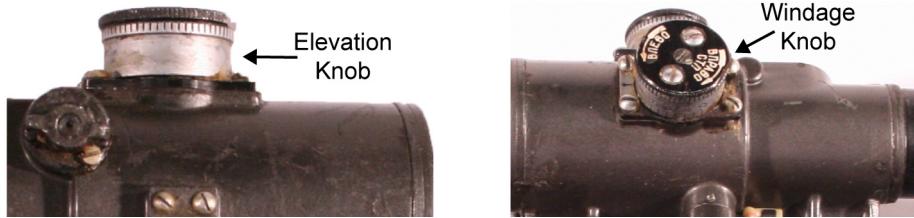
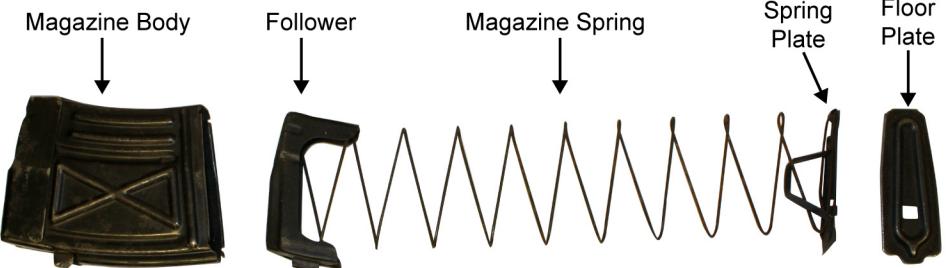
| Item No. | Interval | Item to Check/Service | Procedure | Not Fully Mission Capable If: |
|--|-----------|------------------------|---|--|
| 1 | Quarterly | PSO-1 Telescopic Sight | <p>a. Check that the elevation and windage knobs move freely in both directions with distinct clicks. Refer to Figure 1.</p>  | The knobs do not move freely with distinct clicks. |
| 2 | Quarterly | Magazine Assembly | <p>b. Inspect lenses for scratches, pits, or chips that interfere with the field of view. Scratches, pits, or chips are acceptable as long as they are not in the direct field of view.</p> <p>c. Ensure the locking lever of the telescopic sight securely fastens the sight to the mounting rail and receiver.</p> | Scratches, pits, or chips are in the direct field of view. Locking lever does not fasten securely. |
| | | | <p>a. Disassemble as in WP 0018 00. Inspect the magazine body for bulges, dents, or damaged feeder lips. Inspect the magazine spring and follower for kinks and damage. Replace the magazine if any of these conditions exist. Refer to Figure 2.</p> <p>b. Reassemble magazine and check for binding during operation of the follower. Replace the magazine if the follower binds.</p> | Magazine is not available, is dented or feeder lips are damaged, spring is damaged or has flat spots. Follower binds. |
|  | | | | |
| Figure 2. Magazine Assembly. | | | | |

Table 1. Preventive Maintenance Checks and Services for the SVD Sniper Rifle - Continued.

| Item No. | Interval | Item to Check/Service | Procedure | Not Fully Mission Capable If: |
|----------|----------|-----------------------|---|--|
| 3 | | Buttstock Assembly | <p>a. Check the buttstock for defects. Hairline cracks are acceptable. However, cracks near critical areas (near pins or screws) are not acceptable. Refer to Figure 3.</p> | <p>The buttstock has any cracks near critical areas or any cracks that interfere with weapon operation or operator safety. Hairline cracks are acceptable.</p> |

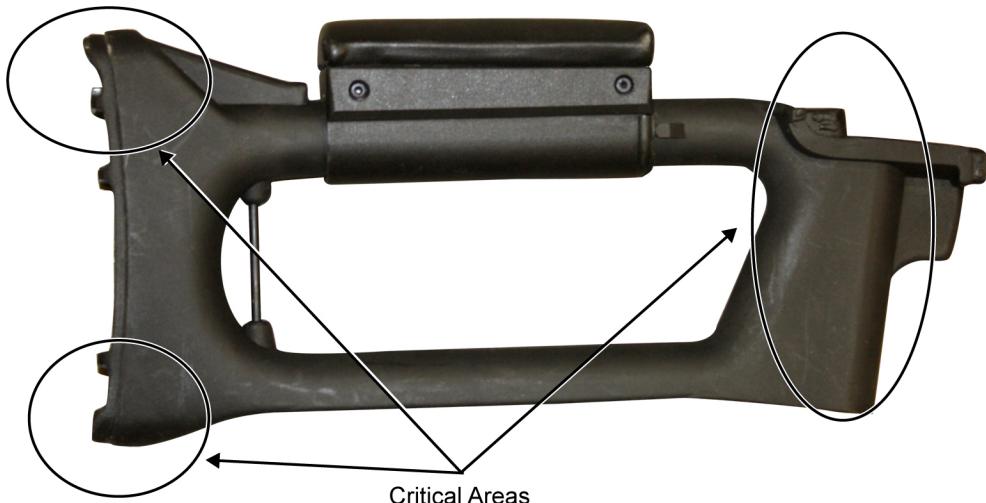


Figure 3. Critical Areas of the Buttstock Assembly.

| | | | | |
|---|-----------|-------------------|--|---|
| | | | <p>b. Check the buttstock for looseness on the receiver. If it is loose, remove the screws, clean the threads, and reinstall the screws. If necessary, replace the buttstock screws or buttstock.</p> <p>c. Check to ensure that the rear sling swivel is serviceable and secure within the buttstock.</p> | <p>The buttstock is loose.</p> <p>The rear sling swivel is not secure.</p> |
| 4 | Quarterly | Trigger Mechanism | <p>a. Inspect and lubricate the trigger, hammer, pins, safety sear, sear, and trigger housing for serviceability. Refer to Figures 4 and 5.</p> | <p>The trigger, hammer, pins, safety sear, sear, and trigger housing are defective, worn, bent, broken, or loose.</p> |

Table 1. Preventive Maintenance Checks and Services for the SVD Sniper Rifle - Continued.

| Item No. | Interval | Item to Check/Service | Procedure | Not Fully Mission Capable If: |
|----------|-----------|-----------------------|--|--|
| 4 Cont. | Quarterly | Trigger Mechanism | <p>b. Inspect the main spring and the trigger spring for bends, kinks, or damage. Check for proper spring tension. Refer to Figure 5.</p> <p>c. Check if the trigger guard is bent, broken, or loose. Refer to Figure 4.</p> <p>d. Inspect the magazine release for cracks or deformities. Check for proper spring tension. Refer to Figure 4.</p> | <p>Main spring or trigger spring are unserviceable.</p> <p>Trigger guard is bent, broken, loose, or interferes with the function of the trigger.</p> <p>Magazine release is unserviceable.</p> |

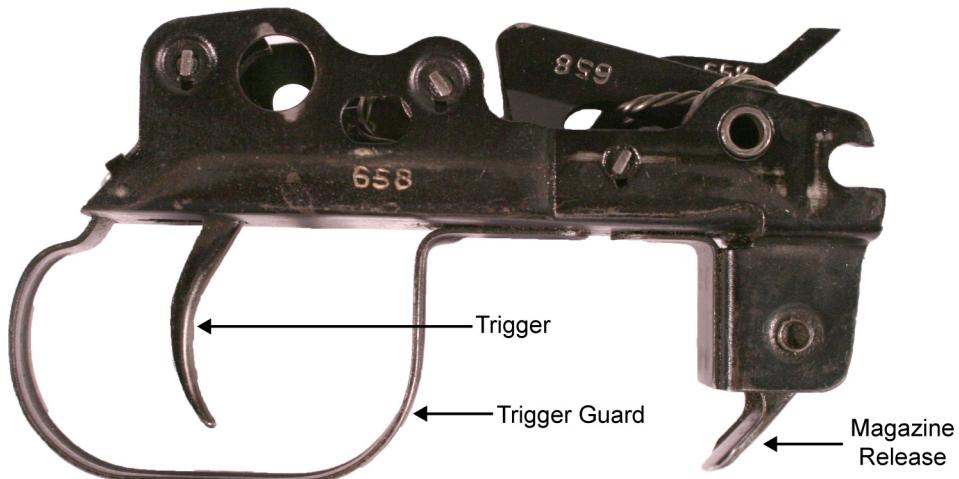


Figure 4. Trigger Mechanism.

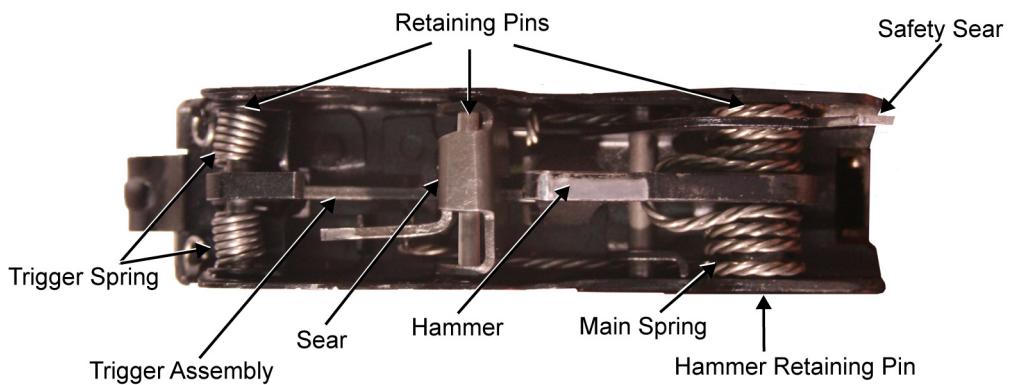


Figure 5. Trigger Mechanism.

Table 1. Preventive Maintenance Checks and Services for the SVD Sniper Rifle - Continued.

| Item No. | Interval | Item to Check/Service | Procedure | Not Fully Mission Capable If: |
|----------|-----------|------------------------------|---|---|
| 5 | Quarterly | Receiver and Barrel Assembly | <p>a. Inspect the barrel for bulges, burrs, obstructions, or pits in the chamber or bore. Refer to Figure 6 and WP 0012 00.</p> | Barrel is defective. |
| | | | <p>b. Inspect the muzzle end of the barrel for a serviceable crown; the lands and grooves should have no nicks or burrs.</p> <p>c. Raise and lower the rear sight assembly. The rear sight leaf spring should retain the rear sight assembly in both positions with firmness.</p> <p>d. Inspect the front sight post and front sight aperture for damage or corrosion. Clean and lubricate the parts.</p> <p>e. Inspect the flash suppressor for damage or corrosion. Ensure there is no movement of the flash suppressor. Clean and lubricate the parts.</p> | <p>Muzzle is defective.</p> <p>The rear sight leaf spring will not retain the rear sight assembly in either position.</p> <p>The front sight post or front sight aperture is damaged or corroded.</p> <p>The flash suppressor is damaged or corroded. The flash suppressor moves.</p> |



Figure 6. Receiver and Barrel Assembly.

Table 1. Preventive Maintenance Checks and Services for the SVD Sniper Rifle - Continued.

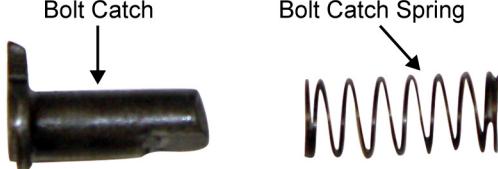
| Item No. | Interval | Item to Check/Service | Procedure | Not Fully Mission Capable If: |
|------------|-----------|------------------------------|--|--|
| 5 Cont. | Quarterly | Receiver and Barrel Assembly | <p>f. Inspect the gas regulator, gas tube, and gas block for cracks or deformities. Refer to Figures 7 and 8.</p> <p style="text-align: center;">Gas Tube</p>  <p style="text-align: center;">Gas Regulator</p> | The gas regulator, gas tube, or gas block are damaged. |
| | | | <p>Figure 7. Gas Regulator and Gas Tube, Disassembled.</p> <p style="text-align: center;">Gas Regulator</p>  <p style="text-align: center;">Gas Block</p> | |
| | | | <p>g. Inspect the bolt catch (in the rear of the magazine well) for burrs, deformities or damage. Check the bolt catch spring for proper spring tension. Remove any burrs. Clean and lubricate. Replace parts if necessary. Refer to Figure 9.</p> <p style="text-align: center;">Bolt Catch</p>  <p style="text-align: center;">Bolt Catch Spring</p> | Bolt catch or bolt catch spring are defective. |

Figure 9. Bolt Catch and Bolt Catch Spring.

Table 1. Preventive Maintenance Checks and Services for the SVD Sniper Rifle - Continued.

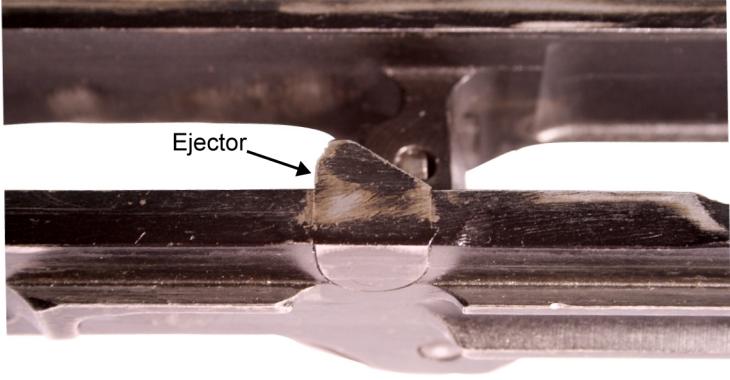
| Item No. | Interval | Item to Check/Service | Procedure | Not Fully Mission Capable If: |
|------------|-----------|------------------------------|--|---|
| 5 Cont. | Quarterly | Receiver and Barrel Assembly | h. Inspect the ejector for wear and deformities. Refer to Figure 10. | Ejector is worn or deformed |
| | | |  | |
| | | | Figure 10. Ejector. | |
| 6 | Quarterly | Handguards | i. When the weapon is assembled, inspect the handguard retaining ring for proper retention of the handguards. Inspect handguards for cracks, gouges, and splinters. Hairline cracks are acceptable. No cracks are acceptable in critical areas. Refer to Figure 11. | Handguard retaining ring is defective. Handguards are defective. |
| | | |  | |
| | | | Figure 11. Handguard. | |
| 7 | Quarterly | Bolt | Inspect the face of the bolt and bolt lugs for cracks, chips, or pitting. | Bolt or bolt lugs are defective. |

Table 1. Preventive Maintenance Checks and Services for the SVD Sniper Rifle - Continued.

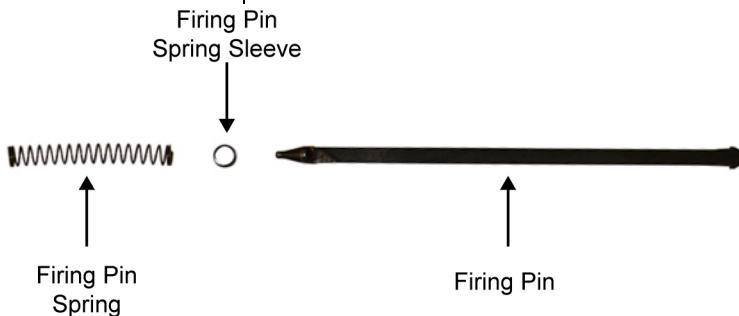
| Item No. | Interval | Item to Check/Service | Procedure | Not Fully Mission Capable If: |
|----------|-----------|-----------------------|--|---|
| 8 | Quarterly | Extractor | <p>a. Ensure extractor is securely in place and functioning properly inside the bolt face. Refer to Figure 12.</p>  <p>Extractor</p> | Extractor is not secure or not functioning properly. |
| 9 | Quarterly | Firing Pin | <p>b. Depress the extractor; it should have spring tension and return to position when released. Extractor should not be chipped, worn, or fouled with brass chips. If any problems exist, repair or replace as necessary.</p> <p>a. Inspect the firing pin for cleanliness and proper lubrication. Ensure firing pin moves freely in the bolt body. Refer to Figure 13.</p>  <p>Firing Pin Spring Sleeve</p> <p>Firing Pin Spring</p> <p>Firing Pin</p> | <p>Extractor is defective.</p> <p>Firing pin does not move freely in the bolt body.</p> |

Figure 13. Firing Pin Spring, Firing Pin Sleeve, and Firing Pin..

Table 1. Preventive Maintenance Checks and Services for the SVD Sniper Rifle - Continued.

| Item No. | Interval | Item to Check/Service | Procedure | Not Fully Mission Capable If: |
|------------|-----------|---|--|---|
| 9 Cont. | Quarterly | Firing Pin | <p>b. Inspect the firing pin spring and the firing pin spring sleeve (if present). Check for proper spring tension. Inspect for burrs, deformities, or damage. Remove any burrs. Refer to Figure 13</p> <p>c. Gage firing pin protrusion using the firing pin protrusion gage. Refer to WP 0023 00.</p> | <p>Firing pin spring or firing pin spring sleeve are defective.</p> <p>Firing pin does not pass the gaging test.</p> |
| 10 | Quarterly | Selector Level Function Check |  | <p>WARNING</p> <p>Ensure the weapon is clear prior to performing the following function checks. If the weapon fails any of the following function checks, attempt to repair. If beyond repair, replace the weapon.</p> |
| | | Selector Lever -SEMI -SAFE -SEMI | <p>a. Place the selector lever on SEMI.</p> <p>b. Ensure the weapon is clear. Charge the weapon.</p> <p>a. Place the selector lever on SAFE.</p> <p>b. Pull the trigger. The hammer should NOT fall.</p> <p>a. Place the selector lever on SEMI.</p> <p>b. Pull the trigger. The hammer should fall.</p> | <p>The hammer falls</p> <p>The hammer does not fall.</p> |

END OF WORK PACKAGE

GENERAL MAINTENANCE INSTRUCTIONS

THIS WORK PACKAGE COVERS

Scope, Work Safety, General Information, Cleaning Instructions, Inspection Instructions, Repair Instructions, Lubrication Instructions, Standard Tool Requirements, Applying Torque, and Tagging Instructions.

INITIAL SETUP

| Maintenance Level | References |
|-------------------|---|
| Organizational | TM 4795-12/1_ TM 9-247 WP 0008 WP 0025 |

SCOPE

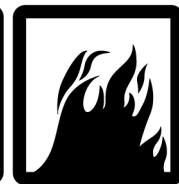
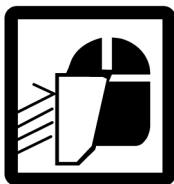
These general maintenance instructions contain general shop practices and specific methods personnel must be familiar with to properly maintain the SVD sniper rifle.

WORK SAFETY

1. Before starting a task, think about the risks and hazards to user safety as well as that of others. Wear protective gear such as safety goggles or lenses, safety shoes, a rubber apron, or gloves to protect against injury.
2. Observe all WARNINGS, CAUTIONs, and NOTES.

GENERAL INFORMATION

1. Before beginning a task, find out how much repair, modification, or replacement is needed to repair the weapon as described in this manual. Sometimes the reason for equipment failure can be seen right away and complete teardown is not necessary. Disassemble the weapon only as far as necessary to repair or replace damaged or broken parts.
2. All tags and forms attached to the equipment must be checked to learn the reason for removal from service. Check all Modification Instructions (MIs) and Technical Bulletins (TBs) for equipment changes and updates.
3. In some cases a part may be damaged by removal. If the part appears to be good, and other parts behind it are not defective, leave it on and continue the procedure.

CLEANING INSTRUCTIONS**WARNING**

Improper cleaning methods and use of unauthorized cleaning solvents may injure personnel and damage equipment. Refer to TM 9-247, *Materials Used for Cleaning, Preserving, Abrading, and Cementing Ordnance Materials and Related Materials Including Chemicals*, for correct information.

Cloths or rags saturated with solvent cleaning compound must be disposed of following authorized facilities' procedures.

Eye shields must be worn when cleaning with a wire brush. Flying rust and metal particles may cause injury to personnel.

Particles blown by compressed air are hazardous. Use a maximum of 30 psi (207 kPa) when cleaning components. DO NOT exceed 15 psi (103 kPa) nozzle pressure when drying parts with compressed air.

DO NOT direct compressed air against human skin. Make sure air stream is directed away from user and other personnel in the area. To prevent injury, user must wear protective goggles or a face shield when using compressed air.

Failure to follow these warnings may result in injury to personnel.

NOTE

Use only Cleaner, Lubricant, and Preservative (CLP) for cleaning and lubrication of the SVD sniper rifle in all but the most severe conditions.

Cleaning instructions are the same for the majority of the parts and components of the weapon.

The importance of cleaning must be thoroughly understood by maintenance personnel. Great care and effort are required in cleaning. Dirt and foreign material are a constant threat to satisfactory maintenance. The following should apply to all cleaning, inspection, repair, and assembly operations:

- (1) Clean all parts before inspection, after repair, and before assembly.
- (2) To prevent contamination, hands should be kept free of any accumulation of grease, which can collect dust, dirt, or grit.
- (3) After cleaning, all parts should be covered or wrapped to protect them from dust and dirt. Parts that are subject to rust should be lightly oiled.

1. Cleaning Disassembled Parts.

- a. Place all disassembled parts in parts box for cleaning.
- b. Dry and cover all cleaned parts.
- c. Place parts on or in "racks" and hold for inspection or repair.
- d. All parts subject to rusting must be lightly oiled and wrapped.
- e. Keep all related parts and components together. Do not mix parts.

2. Castings.

- a. Clean inner and outer surfaces of castings and all areas with CLP and/or bore solvent.
- b. Use a stiff brush to remove sludge and gum deposits.
- c. Clear out all tapped (threaded) holes with compressed air to remove dirt and solvent cleaning compound.

3. Machined Surfaces.

- a. Clean machined surfaces with cleaning compound, powder solvent (WP 0027 00).
- b. Dry surfaces with compressed air.

4. Mated Surfaces. Lightly coat with oil and wrap all parts subject to rust before storing.**INSPECTION INSTRUCTIONS****1. General. All components and parts must be carefully checked to determine whether or not they are serviceable for reuse, can be repaired, or must be scrapped.****2. Drilled and Tapped (Threaded) Holes.**

- a. Inspect for wear, distortion (stretching), cracks, or any other damage in or around holes.
- b. Inspect threaded areas for wear, distortion, or evidence of cross-threading.

3. Castings.

- a. Inspect all ferrous and non-ferrous castings for cracks using a magnifying glass and strong light. Particularly check areas around studs, pipe plugs, threaded inserts, and sharp corners. Replace all cracked castings.
- b. Inspect machined surfaces for nicks, burrs, or raised metal. Mark damaged areas for repair or replacement.
- c. Inspect all pipe plugs, pipe plug openings, screws, and screw openings for damaged or stripped threads.
- d. Check all mating surfaces.

4. Studs, Bolts, and Screws. Replace if threads are damaged, bent, or stretched.

5. **Machine-Tooled Parts.** Inspect for cracks, breaks, elongated holes, wear, and chips. Replace any damaged parts.
6. **Machined Surfaces.** Inspect for cracks, evidence of wear, galled or pitted surface, burrs, nicks, and scratches.
7. **Mating Surfaces.** Inspect for seal, secure fit, and pitting.
8. **Rusted Surfaces.** Inspect for pitting, holes, and severe damage.
9. **Internal Parts.** Inspect for cracks, nicks, burrs, evidence of overheating, and wear.
10. **Externally Exposed Parts.** Inspect for breaks, cracks, rust damage, and wear.
11. **Springs.** Inspect for broken, collapsed, and twisted coils.

REPAIR INSTRUCTIONS

1. **General.**

- a. Any repair procedure specific to a particular part or component is covered in the work package relating to that item.

CAUTION

Repaired items must be thoroughly cleaned to remove metal chips and abrasives to prevent them from entering working parts of the weapon. Failure to comply could cause damage to equipment.

- b. After repair, clean all parts thoroughly.

2. **Castings.**

Only minor repairs to machined surfaces are permitted. Remove minor nicks, burrs, and scratches with:

- a. Fine-mill file
- b. Crocus cloth dipped in solvent cleaning compound.

LUBRICATION INSTRUCTIONS

Refer to TM 4795-12/1 and PMCS (WP 0008 00) for detailed instructions on proper lubrication. The following are some general practices to remember:

1. Use correct lubricant in accordance with TM 4795-12/1, *Organizational Corrosion Prevention and Control Procedures for USMC Equipment*.
2. Keep the lubricants clean.
3. Lubricate clean, disassembled, and new parts to prevent rust.

STANDARD TOOL REQUIREMENTS

Some maintenance tasks may require special or fabricated tools. The Initial Setup of the procedure will specify any special or fabricated tools needed to perform that procedure. Only use these special tools for the maintenance procedures for which they are designed or called out. If you are unfamiliar with a required tool, see your supervisor.

APPLYING TORQUE

If a unique torque value is required, it will be provided in a procedural step in the task.

TAGGING INSTRUCTIONS

1. Use marker tags to identify all parts that may be hard to identify or replace later. Fasten the tags to parts during removal by wrapping wire fasteners around or through the parts and twisting the ends together. Position the tags out of the way during cleaning, inspection, and repair. Mark the tags with a pencil, pen, or marker.
2. Identify and tag other parts by name and installed location, as required.

END OF WORK PACKAGE

INTENTIONALLY BLANK

DISASSEMBLY OF WEAPON

THIS WORK PACKAGE COVERS

Disassembly.

INITIAL SETUP**Maintenance Level**

Organizational

Equipment Conditions

Weapon cleared (TM 8370-50097-OR/15)

References

TM 8370-50097-OR/15

**WARNING**

Always assume that every weapon is loaded until it is determined through visual and physical inspection that it is not. Procedures for clearing and unloading the weapon are outlined in TM 8370-50097-OR/15. Failure to follow this warning may cause injury or death to personnel.

DISASSEMBLY

Refer to Figure 1.

1. Refer to TM 8370-50097-OR/15.
2. Remove the PSO-1 telescopic sight. Move optical locking lever from left to right, and slide the telescopic sight off the receiver.
3. Rotate the top cover latch down, and lift the top cover up.
4. Remove the bolt carrier group.
5. Remove the selector lever. Rotate the selector lever to the 12 o'clock position and slide out. This releases the trigger mechanism.
6. Remove the trigger mechanism.
7. Remove the handguards. Depress and rotate the handguard retaining latch, slide the retaining ring forward, and remove the handguards.
8. Remove the operating rod by compressing to the rear of the weapon and lifting up and out.
9. Slide the operating rod spring off the operating rod.
10. Slide the gas piston out of the gas regulator.

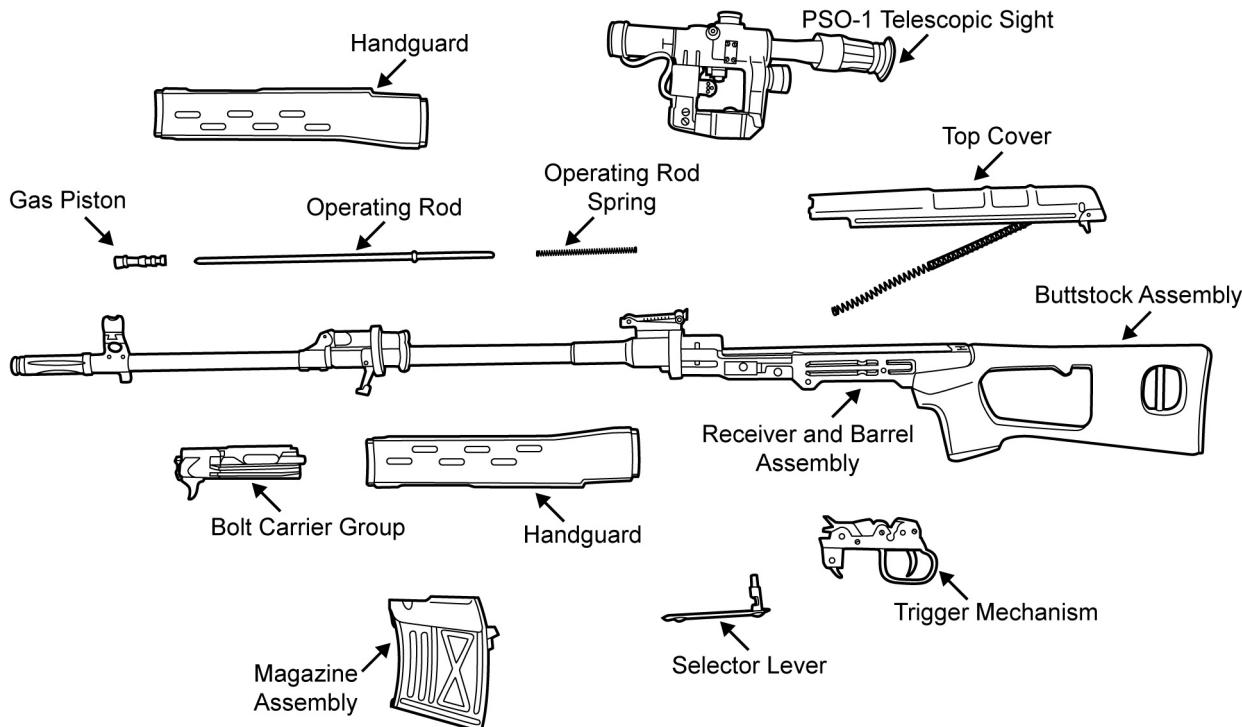


Figure 1. Major Components of the SVD Sniper Rifle Disassembled.

END OF WORK PACKAGE

BOLT CARRIER GROUP

THIS WORK PACKAGE COVERS

Disassembly, Cleaning, Inspection and Repair, Lubrication, and Reassembly.

INITIAL SETUP**Maintenance Level**

Organizational

References

WP 0009 00

Tools and Special Tools

WP 0010 00

E7900 tool kit

WP 0023 00

Equipment Conditions

Bolt carrier group removed from the weapon
(WP 0010 00)

DISASSEMBLY

DO NOT interchange bolt assemblies from one weapon to another without conducting headspace gaging. Failure to follow this warning may cause injury or death to personnel.

The firing pin is under spring tension (in some SVD models). Use caution when removing the firing pin retaining pin to prevent injury to personnel.

1. Push the bolt assembly rearward in the bolt carrier. Rotate the bolt assembly in the bolt carrier until the cam on the bolt clears the cam recess in the bolt carrier and pull the bolt assembly forward, out of the bolt carrier.



Figure 1. Rotate the Bolt Assembly in the Bolt Carrier.

2. Use a punch to remove the firing pin retaining pin. The firing pin, firing pin spring, and firing pin spring sleeve slide out of the rear of the bolt. Not all models of the SVD sniper rifle have a firing pin spring and firing pin spring sleeve. Refer to Figures 2 and 3.



Figure 2. Use a Punch to Remove the Firing Pin Retaining Pin from Bolt.

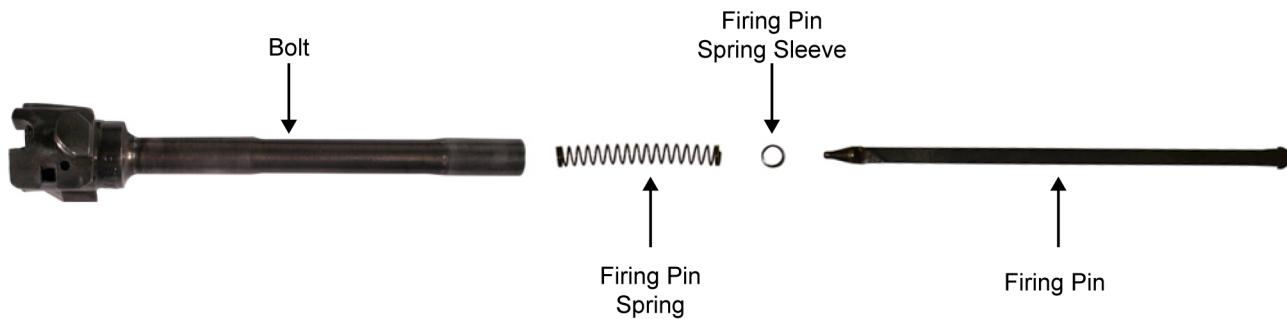


Figure 3. Firing Pin Spring, Firing Pin Spring Sleeve, and Firing Pin Removed.

**WARNING**

The extractor is under spring tension. Use care to prevent it from flying free.

3. Use a punch and a hammer to drive out the extractor retaining pin. Before removing the punch, cover the extractor with a finger. Refer to Figure 4.

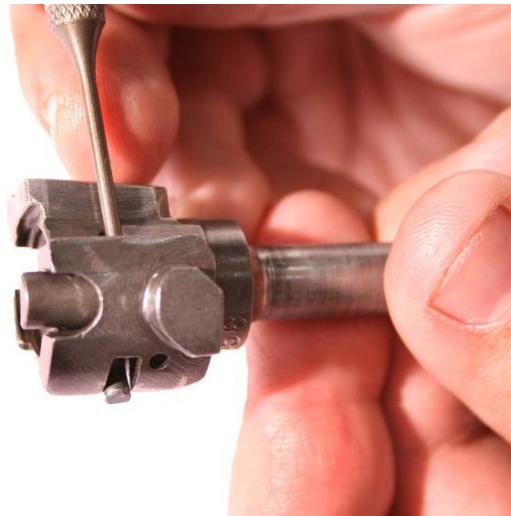


Figure 4. Removing the Extractor Retaining Pin from Bolt.

4. Remove the extractor and extractor spring from the bolt. Refer to Figure 5.

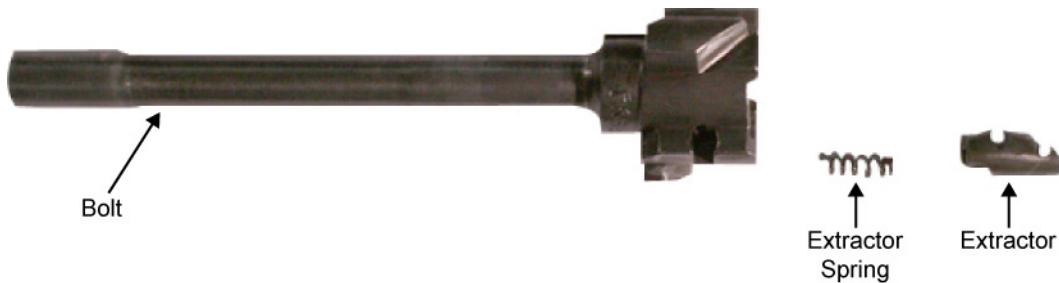


Figure 5. Remove the Extractor and Extractor Spring.

CLEANING

Clean and remove all carbon and debris. Refer to WP 0009 00.

INSPECTION

1. Inspect the bolt and bolt carrier for cracks, chips, or burrs. Remove any burrs. Replace if defective.
2. Ensure the charging handle on the bolt carrier has no cracks. Replace the bolt carrier if defective.
3. Inspect the face of the bolt for cracks, chips, or pitting. Replace if defective.

4. Inspect the firing pin to ensure it is straight and has a smooth, round tip. Ensure that firing pin is clean and lightly oiled. Replace if defective.
5. Inspect the extractor for cracks, chips, or burrs. Ensure the lip of the extractor is not worn. Remove any burrs. Replace if defective.
6. Inspect the extractor spring and firing pin spring for spring tension. Replace if defective.
7. Inspect the firing pin retaining pin, firing pin sleeve, and extractor retaining pin for burrs, cracks, and deformities. Replace if defective.
8. Conduct gaging on firing pin and reassembled bolt assembly. Refer to WP 0023 00.

LUBRICATION

Lubricate all metal parts. Refer to WP 0009 00.

REASSEMBLY



DO NOT interchange firing pins with another bolt assembly without gaging for firing pin protusion. Refer to WP 0023.

1. Install the extractor and extractor spring into the bolt. Ensure the lip of the extractor is facing towards the center of the bolt. Refer to Figure 6.

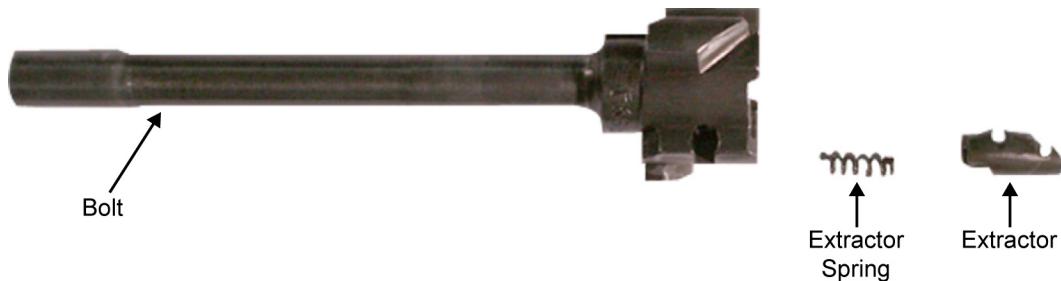


Figure 6. Install the Extractor Spring and Extractor.

2. Install the extractor retaining pin with the bend towards the extractor. Ensure the pin is flush with or recessed below the surface of the bolt once fully installed. Check for proper spring tension by pushing the extractor toward the outer edge of the bolt face; there should be some resistance and the extractor should return to its original position. If unserviceable, replace the extractor spring. Refer to Figure 7

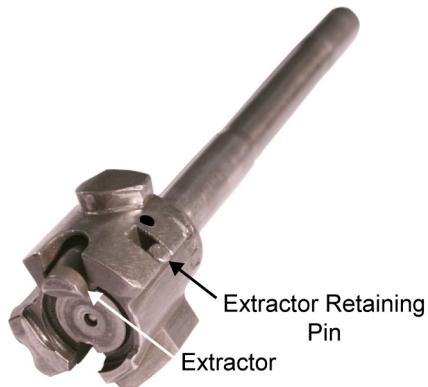


Figure 7. Extractor Retaining Pin Installed.

3. Install the firing pin spring sleeve then firing pin spring onto the firing pin. Not all models of the SVD sniper rifle have firing pin springs and firing pin spring sleeves. Install the firing pin into the bolt. Ensure the cut out of the firing pin is facing towards the firing pin retaining pin hole. Refer to Figure 8.

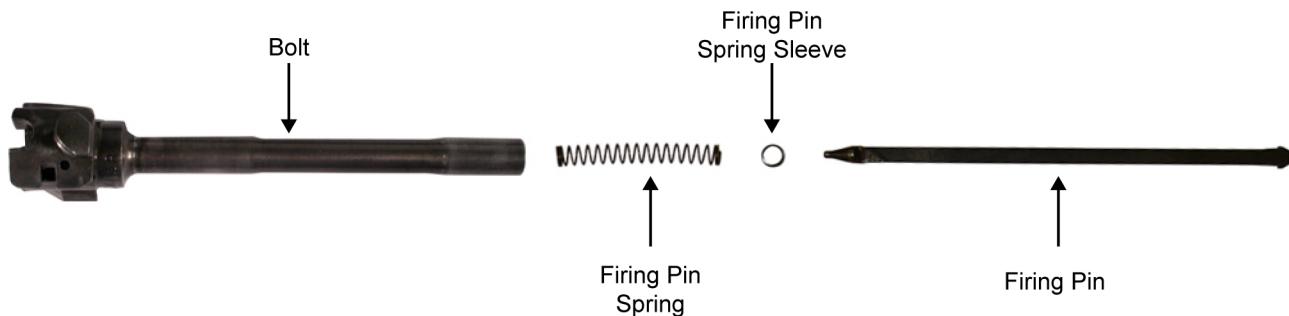


Figure 8. Install the Firing Pin Spring, Firing Pin Spring Sleeve, and Firing Pin.

4. Install the firing pin retaining pin. Ensure the firing pin is secured by the firing pin retaining pin. Refer to Figure 9.

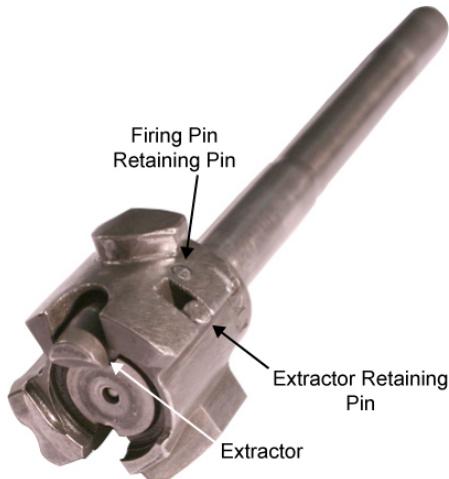


Figure 9. Firing Pin Retaining Pin Installed.



WARNING

DO NOT interchange bolt assemblies from one weapon to another without gaging for the proper headspace. Refer to WP 0023 00. Failure to follow this warning may cause injury or death to personnel.

5. Push the bolt assembly completely into the bolt carrier. Refer to Figure 10.



Figure 10. Push the Bolt Assembly into the Bolt Carrier.

6. Rotate the bolt assembly to mate the cam on the bolt with the cam recess in the bolt carrier.
7. With the cam of the bolt engaged in the cam recess in the bolt carrier, rotate and pull the bolt assembly forward in the bolt carrier.

END OF WORK PACKAGE

RECEIVER ASSEMBLY

THIS WORK PACKAGE COVERS

Disassembly, Cleaning, Inspection and Repair, Lubrication, and Reassembly.

INITIAL SETUP**Maintenance Level**

Organizational

ReferencesWP 0009 00
WP 0010 00**Tools and Special Tools**

E7900 tool kit

Equipment Condition

Weapon disassembled (WP 0010 00)

DISASSEMBLY

1. Unscrew the front sight post counterclockwise until it clears the front sight aperture. Refer to Figure 1.

NOTE

Before removing the front sight aperture, take reference of the scribe marks.
Refer to Figure 1.

2. Remove the front sight aperture by tapping with a rawhide mallet from left to right. Refer to Figure 1.

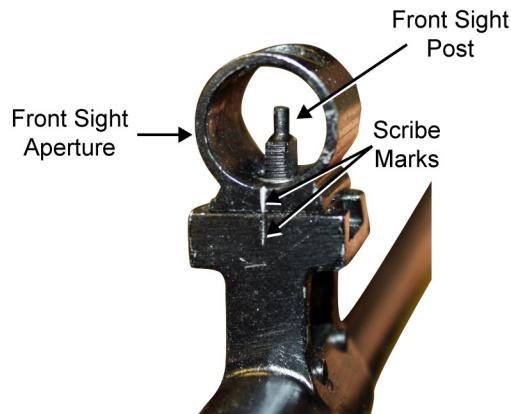


Figure 1. Front Sight Assembly.

3. Drift out the two press pins from the flash suppressor. Refer to Figure 2.

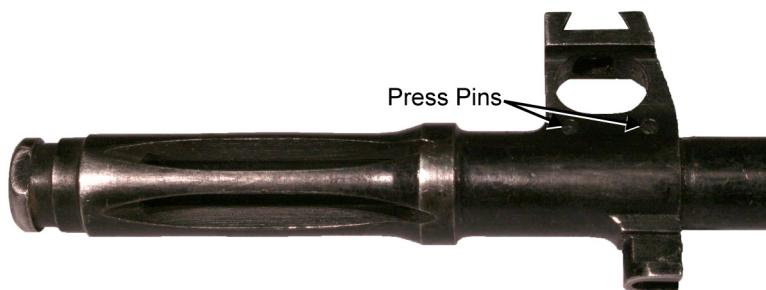


Figure 2. Press Pins.

4. Slide the flash suppressor from the barrel.
5. Depress the gas tube locking lever and turn the gas tube counterclockwise until it separates from the gas block. Refer to Figure 3.

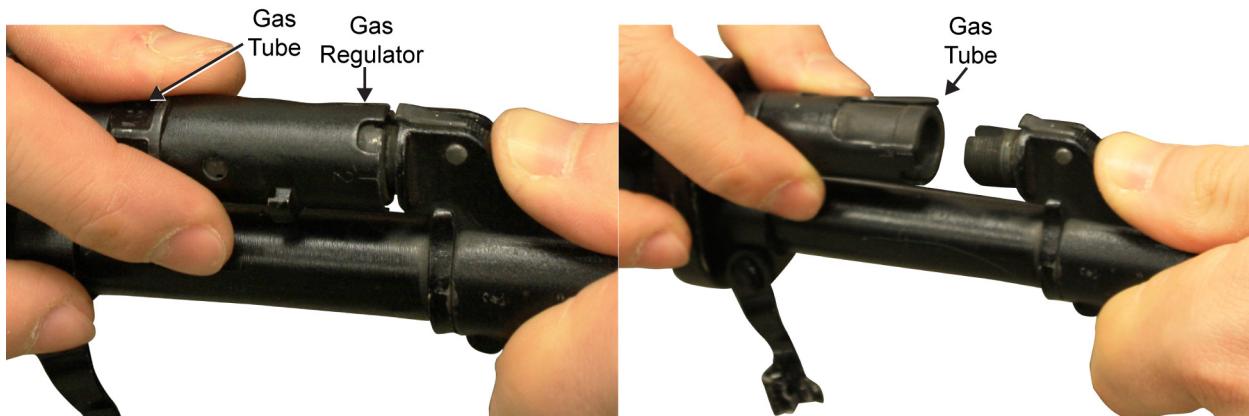


Figure 3. Removing the Gas Tube and Gas Regulator.

NOTE

Carbon build-up may cause the gas regulator and gas tube to seize together.
Soak in CLP if necessary.

6. Separate the gas regulator from the gas tube by pulling away from each other. Refer to Figure 4.

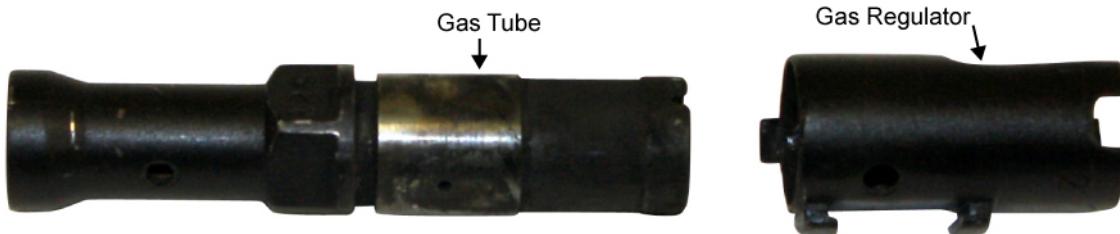


Figure 4. Gas Tube and Gas Regulator.

**WARNING**

The elevation slide assembly is under spring tension. Use care when working on spring-loaded parts.

7. Extend the rear sight. Refer to Figure 5.



Figure 5. The Rear Sight Extended.

8. While pulling the bottom of the rear sight assembly rearward, use a dead blow mallet to tap on the top of the rear sight assembly to dislodge it. Refer to Figure 6.



Figure 6. Dislodging and Removing the Rear Sight Assembly Using a Dead Blow Mallet.

NOTE

As an alternative to steps 7 and 8, follow step 9 to remove the rear sight assembly.

9. Tilt the rear sight assembly to a 45 degree angle. While pressing down and forward on the narrow end of the rear sight leaf spring with a punch or flat head screw driver, hold the rear sight assembly with fingers and press down firmly to remove the rear sight assembly studs from the holes in the rear sight base.

- When the rear sight assembly dislodges from the track of the rear sight base, pull it to the rear to remove it.

NOTE

The rear sight leaf spring is staked into the rear sight base.

- To remove the rear sight leaf spring, pull up at a 45 degree angle on the narrow, forward end with needle-nosed pliers. Refer to Figure 7.

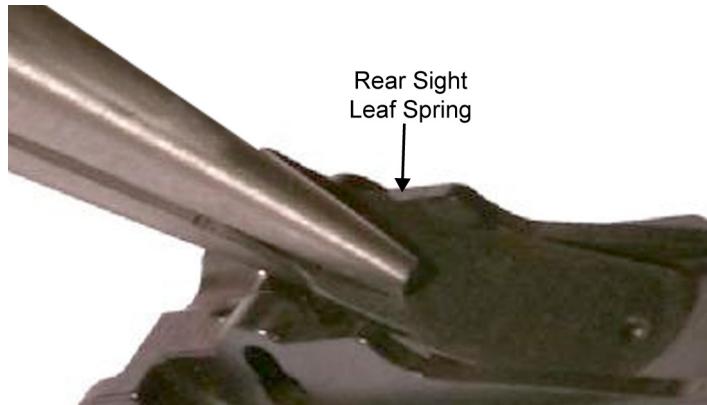


Figure 7. Removing the Rear Sight Leaf Spring.

- Depress the elevation slide assembly and remove it from the sight leaf. Refer to Figure 8.

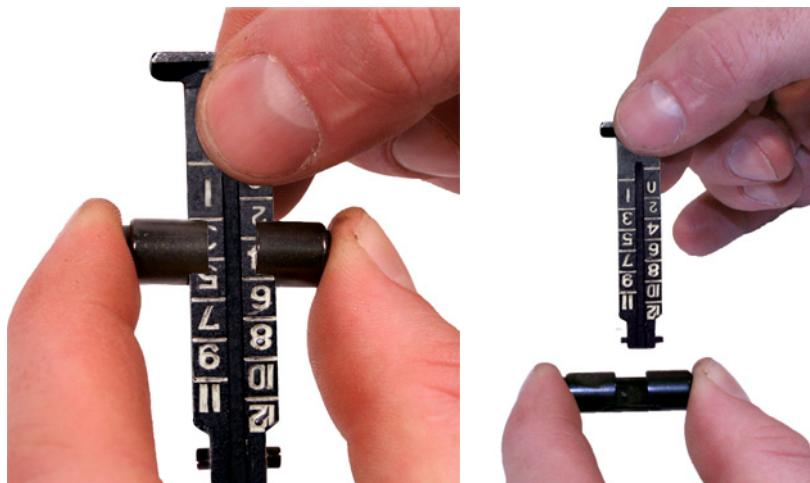


Figure 8. Depressing the Elevation Slide Assembly and Removing it from the Sight Leaf.

- Disassemble the slide, slide spring, and slide catch. Refer to Figure 9.

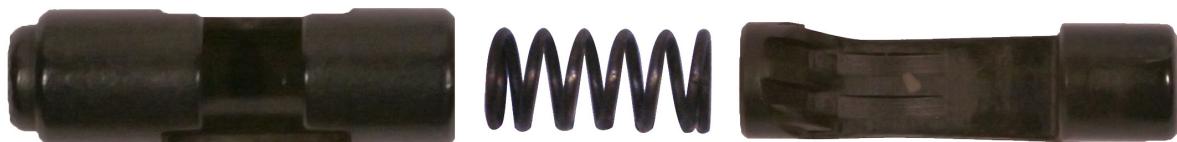


Figure 9. Disassembled Slide, Slide Spring, and Slide Catch.

NOTE

DO NOT remove gas block.

14. Depress the bolt catch and use a punch to drift the trigger mechanism retaining pin from left to right. The trigger mechanism retaining pin is headed. Refer to Figure 10.

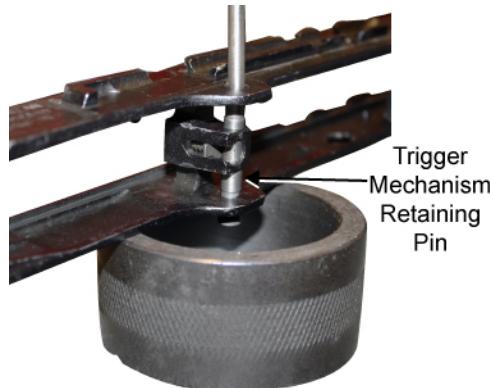


Figure 10. Drift the Trigger Mechanism Retaining Pin.

15. Remove the bolt catch and bolt catch spring from the receiver. Refer to Figure 11.

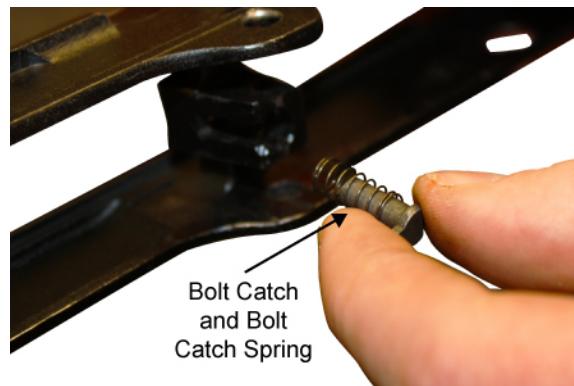


Figure 11. Remove the Bolt Catch and Bolt Catch Spring.

16. Pull apart the bolt catch and bolt catch spring. Refer to Figure 12.

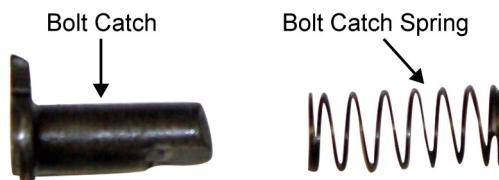


Figure 12. Bolt Catch and Bolt Catch Spring.

17. Remove the pistol grip cap screw. Refer to Figure 13.



Figure 13. Remove the Pistol Grip Cap Screw.

18. Remove the pistol grip cap. Refer to Figure 14.



Figure 14. Remove the Pistol Grip Cap.

19. Unscrew and remove the pistol grip screw and split washer from inside the pistol grip. Refer to Figure 15.



Figure 15. Remove the Pistol Grip Screw and Split Washer.

20. Remove the pistol grip top screw. Refer to Figure 16.

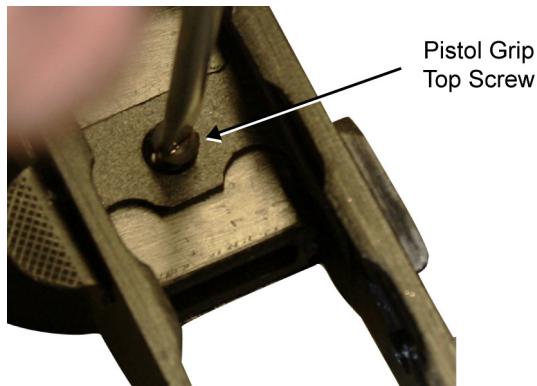


Figure 16. Remove the Pistol Grip Top Screw.

21. Separate the buttstock from the receiver. Refer to Figure 17.



Figure 17. The Buttstock and Receiver Separated.

CLEANING

Clean and remove all debris and carbon deposits. Refer to WP 0009 00.

INSPECTION AND REPAIR



WARNING

Ensure the weapon is cleared before performing these procedures. Failure to follow this warning may cause injury or death to personnel.

1. Inspect barrel and receiver for burrs and cracks. Check chamber area for nicks or burrs that would cause hard extraction or chambering. Burrs in chamber area may also cause a ruptured case or a failure to extract. If there are visible cracks in the barrel and receiver, chamber, or muzzle break, replace the weapon.
2. Inspect the sight leaf for cracks, deformities, and breaks. Replace the sight leaf if damaged.

3. Inspect the slide spring for spring tension, bends, or breaks. Replace the slide spring if damaged.
4. Inspect the slide and slide catch for cracks and burrs. Remove the burrs. Replace the slide or slide catch if damaged.
5. Inspect the gas block for fouling, cracks, and looseness on the barrel. Replace the weapon if damaged or loose.
6. Inspect the gas regulator and gas tube for cracks, deformities, and burrs. Remove any burrs. Replace parts if damaged.
7. When the receiver is reassembled, inspect the flash suppressor for movement or looseness on the barrel. Ensure the flash suppressor does not move.
8. When the receiver is reassembled, inspect the retaining ring for retention. Ensure the retaining ring retains the handguards.
9. When the receiver is reassembled, inspect the rear sight for proper function. Ensure the slide locks into position on the distance markings on the sight leaf.
10. When the receiver is reassembled, inspect the bolt catch for proper operation. Ensure the bolt catch operates smoothly and retains the bolt to the rear.

LUBRICATION

Lubricate all metal parts. Refer to WP 0009 00.

REASSEMBLY

1. Install the buttstock on the receiver, and secure with the pistol grip top screw. Refer to Figure 18.

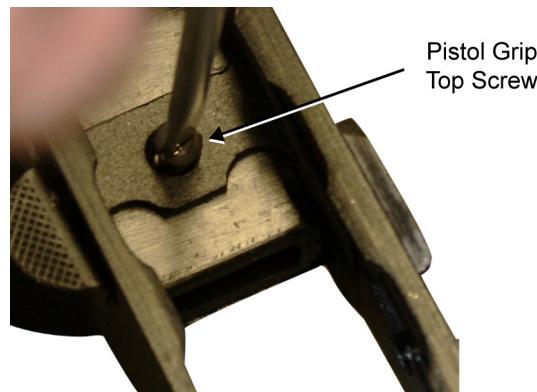


Figure 17. Install the Pistol Grip Top Screw.

2. Install the pistol grip screw and split washer. Refer to Figure 19.



Figure 19. Install the Pistol Grip Screw and Split Washer.

3. Install the pistol grip cap, and secure with the pistol grip cap screw. Refer to Figure 20.



Figure 20. Install the Pistol Grip Cap and Pistol Grip Cap Screw.

4. Install the bolt catch spring on the bolt catch. Refer to Figure 21.



Figure 21. Bolt Catch Spring Installed on Bolt Catch.

5. Install the bolt catch and bolt catch spring in the receiver. Ensure the tab on the bolt catch faces forward. Refer to Figure 22.

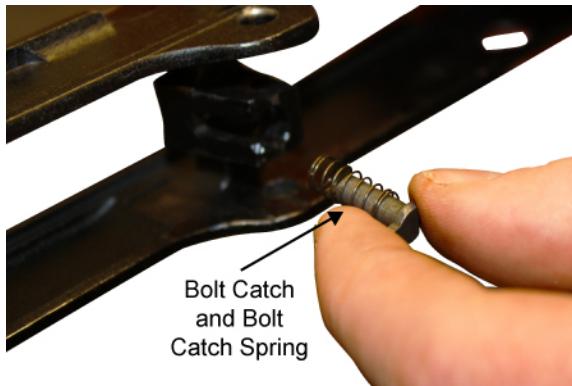


Figure 22. Install the Bolt Catch and Bolt Catch Spring.

6. Depress the bolt catch and drift the trigger mechanism retaining pin from right to left. The trigger mechanism retaining pin is headed. Refer to Figure 23.

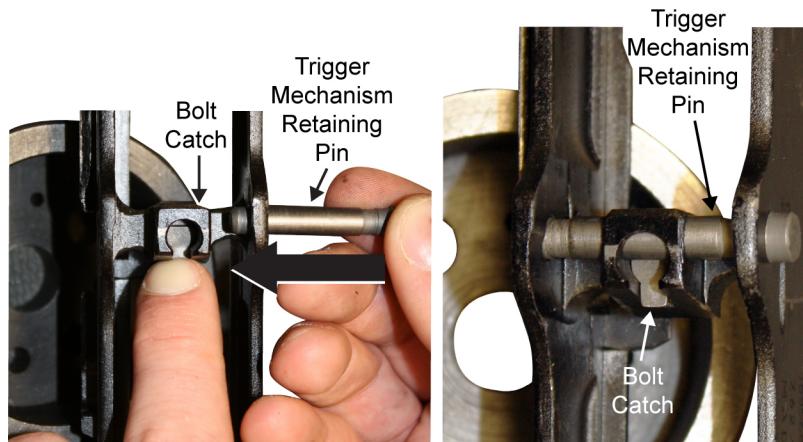


Figure 23. Install the Trigger Mechanism Retaining Pin.

7. Reassemble the slide, slide spring, and slide catch. Refer to Figure 24.



Figure 24. Slide, Slide Spring, and Slide Catch.

8. Depress the elevation slide assembly and install it onto the sight leaf. Ensure the teeth on the elevation slide assembly mate with the teeth on the bottom of the sight leaf. Refer to Figure 25.

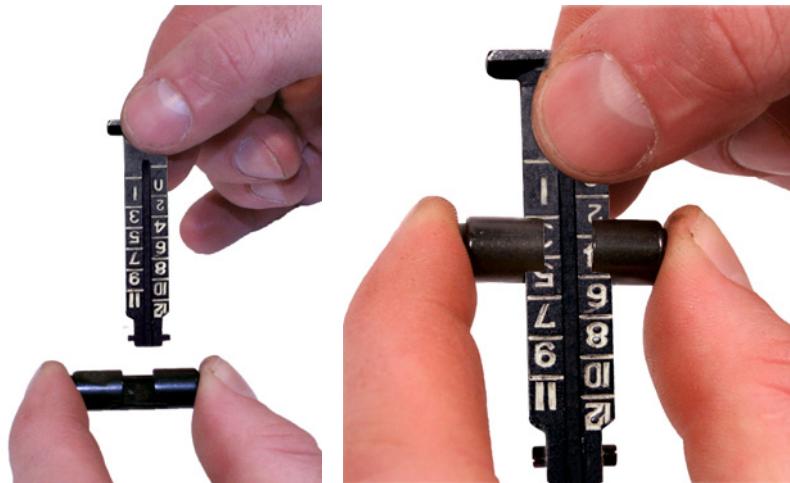


Figure 25. Depressing and Installing the Elevation Slide Assembly onto the Sight Leaf.

9. Use needle-nosed pliers to install the leaf spring into the rear sight base, ensuring that the dimple on the leaf spring corresponds to the hole in the rear sight base and that the wide, rear end is fully seated in the cut out in the top of the rear sight base. Refer to Figure 26.

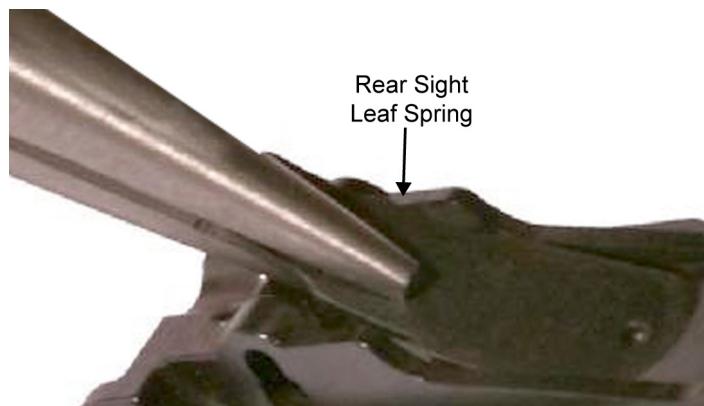


Figure 26. Installing the Rear Sight Leaf Spring.

NOTE

Ensure the numbers on the rear sight assembly are facing upwards when installing the rear sight assembly.

10. Holding the rear sight assembly at a 45 degree angle, push the studs on the bottom of the rear sight assembly down and forward into the grooves on the rear sight base until they are seated in the holes in the rear sight base. It may be necessary to use a dead blow mallet. Refer to Figure 27.



Figure 27. Rear Sight Assembly Installed on the Rear Sight Base.

11. Install the gas regulator on the gas tube. Refer to Figure 28.

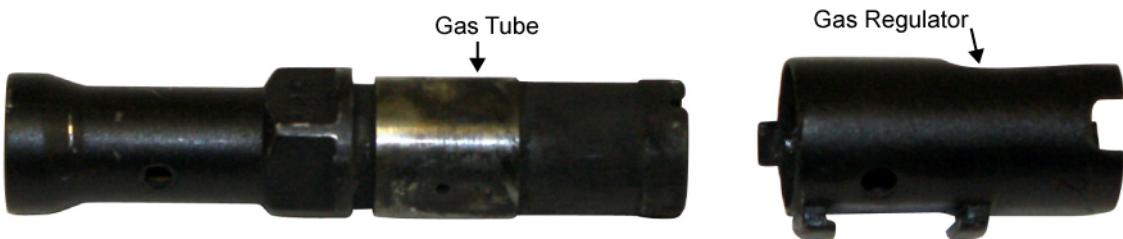


Figure 28. Gas Tube and Gas Regulator.

12. Depress the gas tube locking lever and turn the gas tube clockwise until it is installed on the gas block. Refer to Figure 29.



Figure 29. Installing the Gas Tube and Gas Regulator.

13. Slide the flash suppressor on the barrel, and secure with the two press pins. Refer to Figure 30.

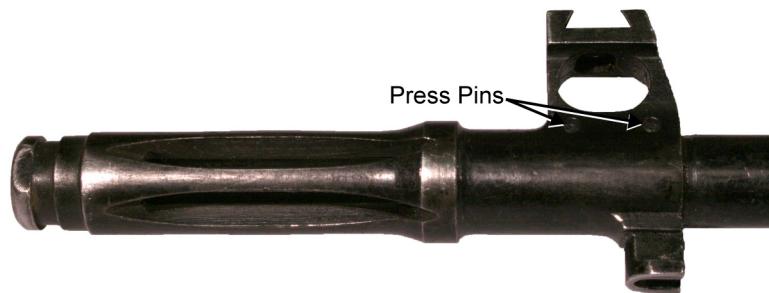


Figure 30. Press Pins Installed through the Flash Suppressor.

14. Install the front sight aperture by tapping with a rawhide mallet from right to left. Ensure the scribe marks on the front sight aperture and flash suppressor are properly aligned. Refer to Figure 31.

15. Install the front sight post in the front sight aperture by screwing clockwise. Refer to Figure 31.

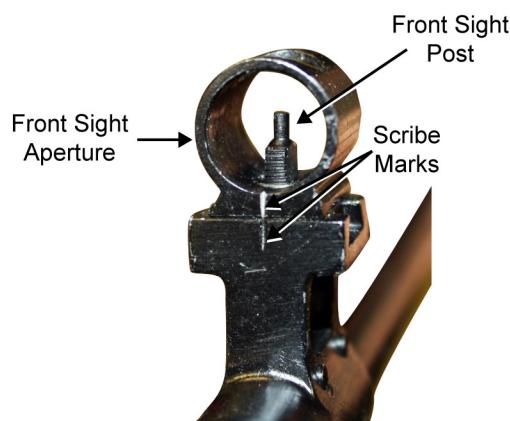


Figure 31. Front Sight Assembly.

END OF WORK PACKAGE

INTENTIONALLY BLANK

TRIGGER MECHANISM

THIS WORK PACKAGE COVERS

Disassembly, Cleaning, Inspection and Repair, Lubrication, and Reassembly.

INITIAL SETUP**Maintenance Level**

Organizational

ReferencesWP 0009 00
WP 0010 00**Tools and Special Tools**

E7900 tool kit

Equipment Conditions

Weapon disassembled (WP 0010 00)

DISASSEMBLY**NOTE**

The retaining pins on some SVD models have flared heads instead of locking keyways.

1. Use a flathead screwdriver to lift the end of the long leg of the main spring off of the sear. Refer to Figure 1.



Figure 1. Lifting the Long Leg of the Main Spring off of the Sear.

2. There are three retaining pins. Remove the center retaining pin, which is installed through the sear. Refer to Figure 2.

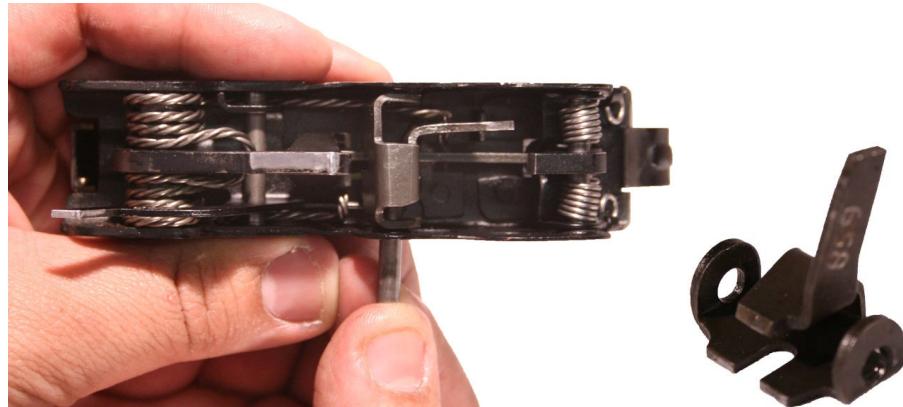


Figure 2. Remove the Retaining Pin from the Sear and Remove the Sear.

3. Place a finger over the hammer and pull the trigger, riding the hammer forward. Use a flathead screwdriver to lift the end of the short leg of the main spring off of the safety sear. Refer to Figure 3.



Figure 3. Lifting the Short Leg of the Main Spring off of the Safety Sear.

4. Remove the forward retaining pin, which is installed through the safety sear. Remove the safety sear. Refer to Figure 4.

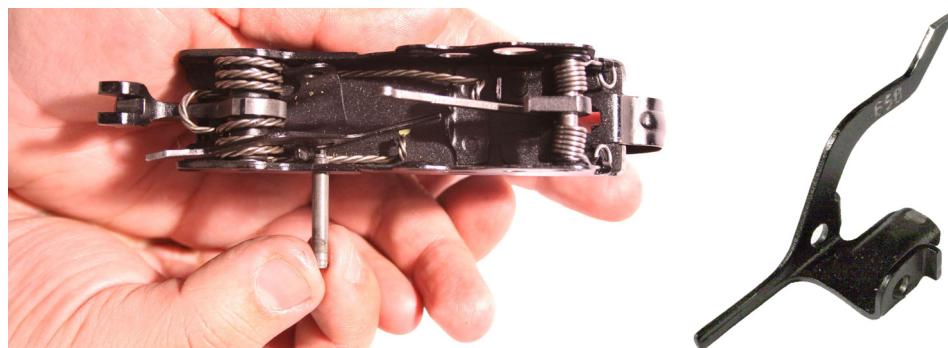


Figure 4. Remove the Retaining Pin from the Safety Sear and Remove the Safety Sear.

5. Remove the hammer pin, then remove the main spring and hammer. Refer to Figure 5.



Figure 5. Removing the Hammer Pin.

6. Remove the main spring from the hammer. Refer to Figure 6.



Figure 6. Hammer and Main Spring.

7. Use a flathead screwdriver to remove the legs of the trigger spring from the hooks on the trigger housing. Refer to Figure 7.



Figure 7. Unhooking the Legs of the Trigger Spring.

8. Remove the rear retaining pin, which is installed through the trigger spring and trigger assembly. Remove the trigger spring and trigger assembly. Refer to Figure 8.

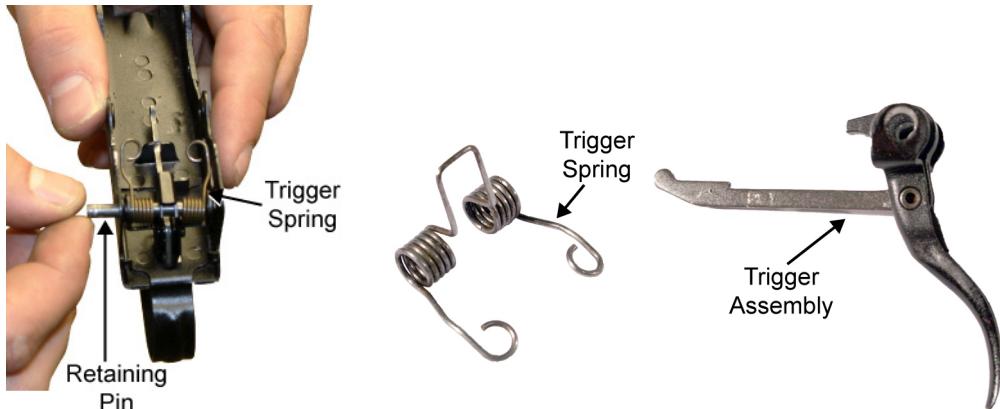


Figure 8. Removing the Retaining Pin, Trigger Spring, and Trigger Assembly.

CLEANING

Clean and remove all debris and carbon deposits. Refer to WP 0009 00.

INSPECTION AND REPAIR

1. Inspect the sear, safety sear, trigger assembly, and trigger housing for burrs, cracks, wear, deformities, pits, and damage. Remove any burrs. Replace if unserviceable.
2. Inspect the magazine release for burrs, deformities, damage, and spring tension. Replace if unserviceable.
3. Inspect the trigger spring and main spring for wear, cracks, and spring tension. Replace if unserviceable.
4. Inspect the hammer for burrs, cracks, wear, deformities, and damage. Remove any burrs. Replace if unserviceable.
5. Inspect the three retaining pins and the hammer pin for burrs, cracks, deformities, and straightness. Remove any burrs. Replace if unserviceable.

LUBRICATION

Lubricate all metal parts. Refer to WP 0009 00.

REASSEMBLY

1. Install the trigger assembly in the trigger housing, aligning the holes. Refer to Figure 9.

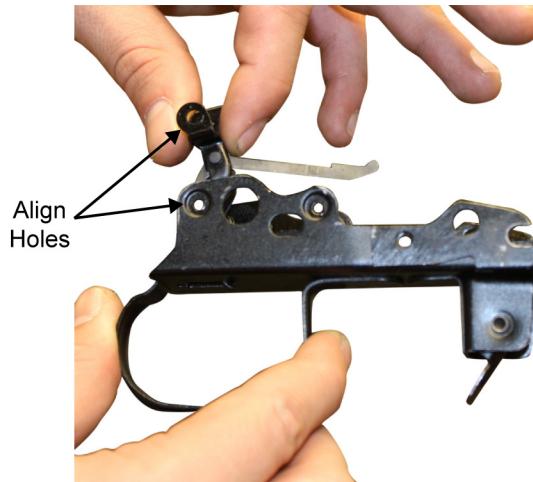


Figure 9. Install the Trigger Assembly.

2. Install the trigger spring on the trigger assembly. Refer to Figure 10.



Figure 10. Install the Trigger Spring.

NOTE

In some SVD models, retaining pins are flared, and do not have key locks.

3. Install a retaining pin through the trigger spring and trigger assembly within the trigger housing. Use a hammer and punch if necessary. Refer to Figure 11.

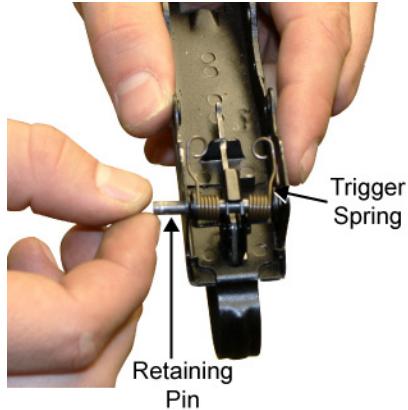


Figure 11. Installing a Retaining Pin through the Trigger Spring and Trigger Assembly.

4. Use a flathead screwdriver to secure the ends of the trigger spring under the hooks on the trigger housing. Refer to Figure 12.

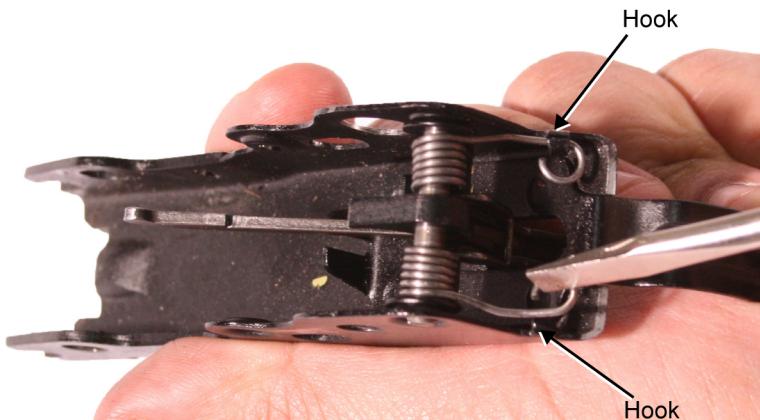


Figure 12. Secure the Ends of the Trigger Spring under the Hooks on the Trigger Housing.

5. Install the main spring on the hammer. Ensure the main spring is oriented as shown in Figure 13.



Figure 13. Main Spring Installed on the Hammer.

6. Place the hammer and main spring in the trigger housing and install the hammer pin. Refer to Figure 14.

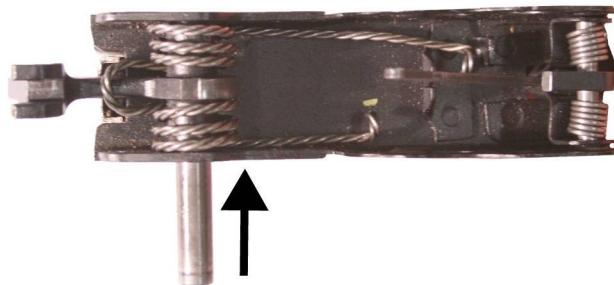


Figure 14. Install the Hammer, Main Spring, and Hammer Pin.

7. Install the safety sear with the curved leg over the main spring. Install a retaining pin through the safety sear. Use a hammer and punch if necessary. Refer to Figure 15.



Figure 15. Install the Safety Sear and Install a Retaining Pin through the Safety Sear.

8. Use a flathead screwdriver to lift the end of the short leg of the main spring over the safety sear. Ensure the back leg of the safety sear goes underneath the end of the short leg of the main spring. Refer to Figure 16.



Figure 16. Lifting the Short Leg of the Main Spring over the Safety Sear.

9. Pull the hammer back until it engages the safety sear. Install the sear. Install a retaining pin through the sear. Use a hammer and punch if necessary. Refer to Figure 17.

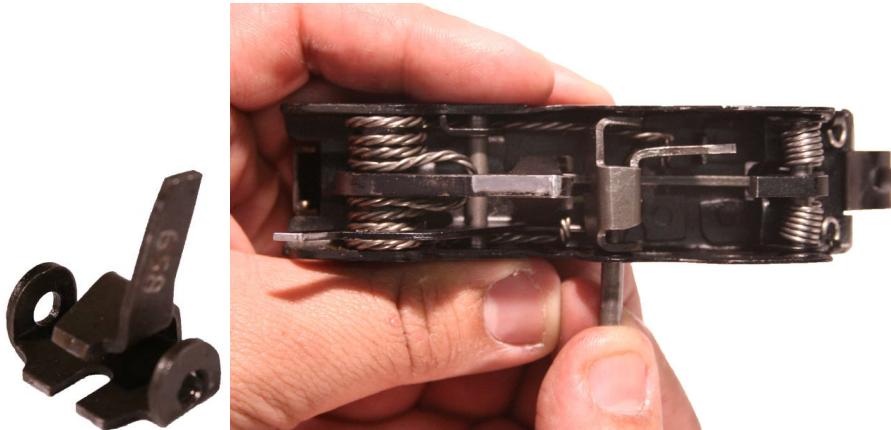


Figure 17. Install the Sear and Install a Retaining Pin through the Sear.

10. Use a flathead screwdriver to lift the end of the long leg of the main spring onto the sear. Refer to Figure 18.



Figure 18. Lifting the Long Leg of the Main Spring onto the Sear.

END OF WORK PACKAGE

PSO-1 TELESCOPIC SIGHT AND VARIANTS

THIS WORK PACKAGE COVERS

Disassembly, Cleaning, Inspection and Repair, and Lubrication.

INITIAL SETUP**Maintenance Level**

Organizational

Equipment Conditions

Telescopic sight removed (WP 0010 00)

References

WP 0009 00

WARNING

The PSO-1 telescopic sight contains nitrogen. No maintenance will be performed.

DISASSEMBLY

The PSO-1 telescopic sight may be removed from the weapon and reinstalled on the weapon at the operator level of maintenance. PSO-1 sight units are calibrated and contain nitrogen. No disassembly is authorized.



Figure 1. PSO-1 Telescopic Sight.

CLEANING**CAUTION**

When cleaning the PSO-1 telescopic sight, ensure that it is held with the lens facing down to avoid scratching the lens.

1. Use a damp towel and warm, soapy water to wipe down the PSO-1 telescopic sight.
2. Hold the PSO-1 telescopic sight with the lens facing down to allow the dirt to fall away from the lens, and use tissue paper to clean the lens.

INSPECTION AND REPAIR**NOTE**

No organizational maintenance is authorized after removal of the PSO-1 telescopic sight. PSO-1 telescopic sight assemblies are calibrated and contain nitrogen. Unserviceable telescopic sight assemblies must be returned to the manufacturer or to the depot level of maintenance.

1. Inspect for cracks, broken and scratched lenses, moisture inside the telescope, pits or chips that interfere with field of view, damaged reticle, dents in the telescope body, and damaged telescope knobs or turret assemblies. Replace if defective.
2. Inspect and ensure that all mil dots and cross hairs of the reticle are clearly visible. Replace if defective.

LUBRICATION

Lightly lubricate the locking lever only. DO NOT allow lubricant to contact the lenses.

END OF WORK PACKAGE

BUTTSTOCK ASSEMBLY

THIS WORK PACKAGE COVERS

Disassembly, Cleaning, Inspection and Repair, Lubrication, and Reassembly.

INITIAL SETUP**Maintenance Level**

Organizational

ReferencesWP 0009 00
WP 0012 00**Tools and Special Tools**

E7900 tool kit

Equipment Conditions

Buttstock assembly removed (WP 0012 00)

CAUTION

Do not use dry cleaning solvent on wood or synthetic parts.

DISASSEMBLY**NOTE**

The cheek pad is only used when firing the SVD sniper rifle with the PSO-1 telescopic sight and is included in the procedural instructions.

DO NOT disassemble synthetic cheek pad assembly.

1. Remove the cheek pad screws and the cheek pad from the buttstock, if required.
2. Use a flathead screwdriver to remove the buttplate screws (top and bottom). Refer to Figure 1.



Figure 1. Remove the Buttplate Screws.

3. Remove the buttpiece. Refer to Figure 2.



Figure 2. Remove the Buttpiece.

4. Remove the cheek pad retention spring and the cheek pad retention tab. Refer to Figure 3.



Figure 3. Remove the Cheek Pad Retention Spring and Cheek Pad Retention Tab.

CLEANING

Clean and remove all carbon deposits. Refer to WP 0009 00.

INSPECTION AND REPAIR

1. Inspect all metal parts for excessive burrs, cracks, and deformities. Remove any burrs. Replace if unserviceable.
2. Inspect the buttstock for cracks and gouges. Replace if unserviceable.
3. Ensure that sling swivels have spring tension. Replace if unserviceable.
4. Ensure that the cheek pad screws (if present) and buttstock screws are not worn or stripped. Replace if unserviceable.
5. Ensure that the inserts on both sides of the wooden buttstock are not stripped or stretched. Replace if unserviceable.

6. For wooden buttstocks, ensure that the cheek pad locks into place when tightened. For synthetic buttstocks, ensure the cheek pad locks into the up and down positions when rotated. Replace if unserviceable.
7. Inspect the buttstock for cracks. Hairline cracks or cracks that do not interfere with operator safety or retention on the receiver. Are acceptable. Any cracks in critical areas are NOT acceptable. Replace if unserviceable. Refer to Figure 4.

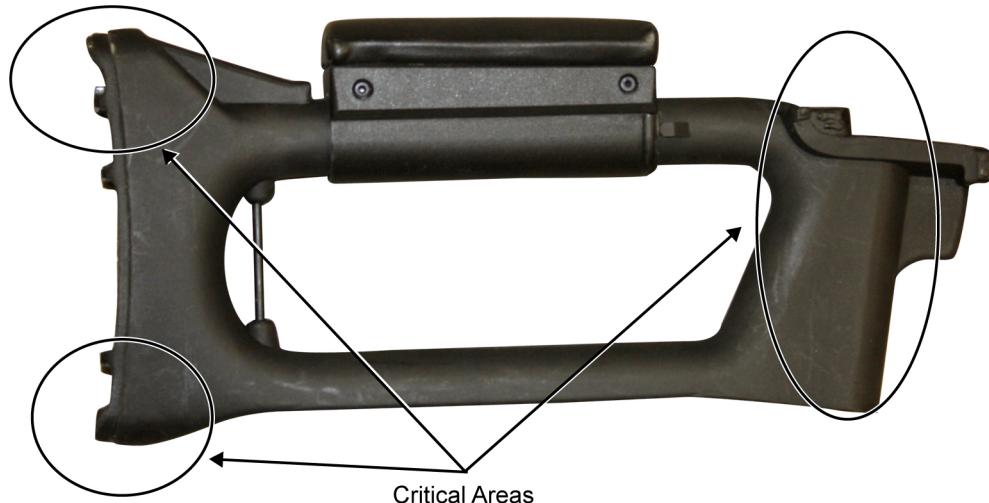


Figure 4. Critical Areas of the Buttstock.

NOTE

The cheek pad is only used when firing the SVD sniper rifle with the PSO-1 telescopic sight and is included in the procedural instructions.

LUBRICATION

Lubricate all metal parts. Refer to WP 0009 00.

REASSEMBLY

1. Insert the cheek pad retention tab, then the cheek pad retention spring into the buttstock. Refer to Figure 5.

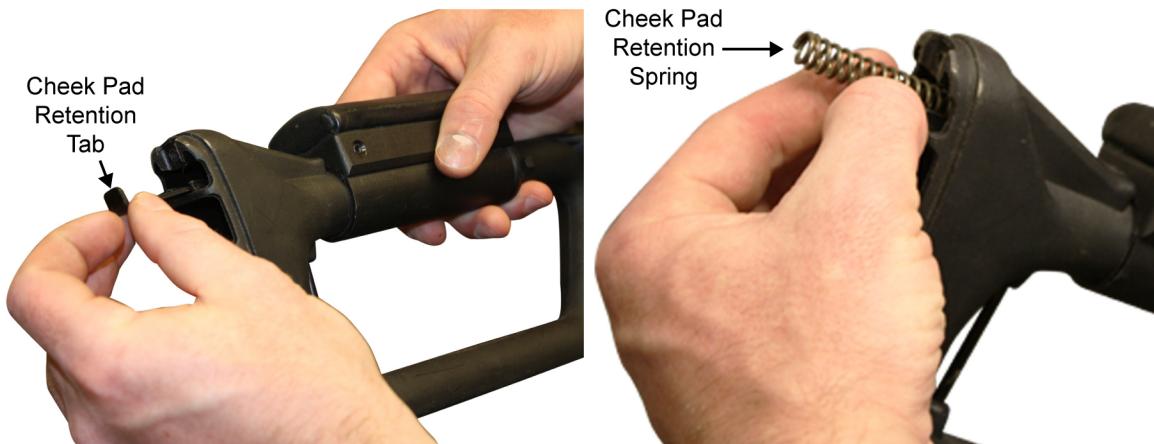


Figure 5. Insert the Cheek Pad Retention Tab and the Cheek Pad Retention Spring.

2. Install the buttplate, and secure with the top and bottom buttplate screws. Refer to Figure 6.



Figure 6. Install the Buttplate and Buttplate Screws.

END OF WORK PACKAGE

TOP COVER ASSEMBLY

THIS WORK PACKAGE COVERS

Disassembly, Cleaning, Inspection and Repair, Lubrication, and Reassembly.

INITIAL SETUP**Maintenance Level**

Organizational

ReferencesWP 0009 00
WP 0010 00**Tools and Special Tools**

E7900 tool kit

Equipment Conditions

Top cover assembly removed (WP 0010 00)

CAUTION

Do not use dry cleaning solvent on synthetic parts.

DISASSEMBLY

1. Remove the front recoil spring. Refer to Figure 1.

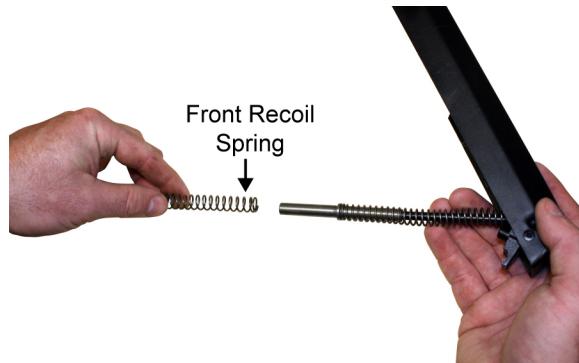


Figure 1. Remove the Front Recoil Spring.

2. Compress and hold the rear recoil spring against the guide rod bushing. Refer to Figure 2.



Figure 2. Compress the Rear Recoil Spring.

3. Slide the end of the guide rod into the round side of the hole in the guide rod link, and remove the guide rod from the guide rod link. Refer to Figure 3

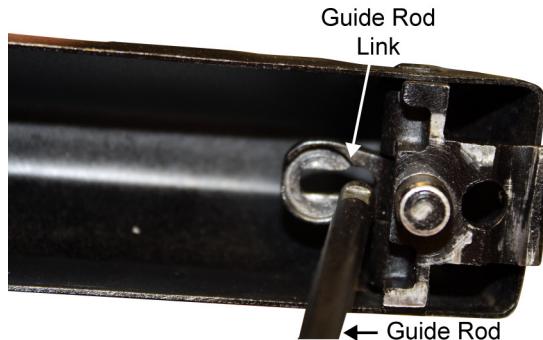


Figure 3. The Guide Rod in the Round Side of the Hole in the Guide Rod Link

4. Remove the rear recoil spring from the guide rod bushing. Refer to Figure 4.

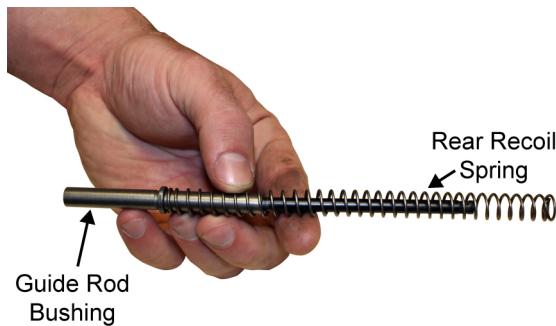


Figure 4. Guide Rod Bushing and Rear Recoil Spring.

5. Slide the guide rod through the guide rod bushing and out the other side of the bushing. Refer to Figure 5.

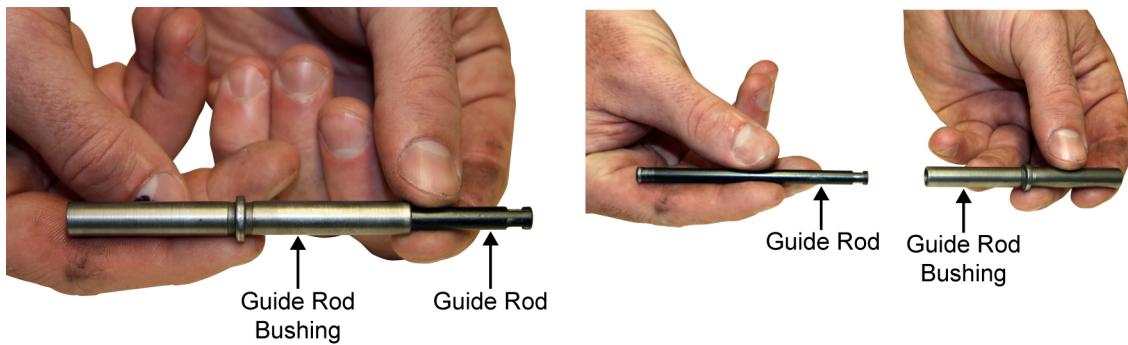


Figure 5. Removing the Guide Rod from the Guide Rod Bushing.

CLEANING

Clean and remove all carbon deposits. Refer to WP 0009 00.

INSPECTION AND REPAIR

1. Inspect the guide rod and guide rod bushing for burrs, cracks, or deformities. Remove any burrs. Replace if defective.
2. Inspect the top cover and guide rod link for burrs, cracks, or deformities. Remove any burrs. Replace if defective.
3. Inspect the front and rear recoil springs for weak spring tension. Replace if defective.

LUBRICATION

Lubricate all metal parts. Refer to WP 0009 00.

REASSEMBLY

1. Slide the guide rod, slotted end first, into the guide rod bushing. One end of the guide rod bushing is slightly smaller than the other. Ensure the guide rod is inserted in the larger end of the guide rod bushing. Refer to Figure 6.



Figure 6. Install the Guide Rod.

2. Install the rear recoil spring onto the guide rod bushing. Refer to Figure 7.

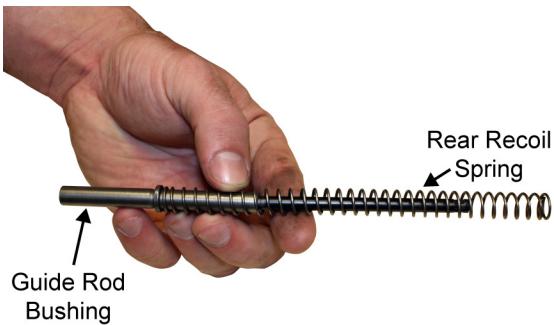


Figure 7. Install the Rear Recoil Spring.

3. Slide a cleaning rod into the guide rod bushing to provide a better grip on the guide rod bushing. Compress and hold the rear recoil spring against the guide rod bushing. Refer to Figure 8.



Figure 8. Slide a Cleaning Rod into the Guide Rod Bushing.

4. To install the slotted end of the guide rod into the guide rod link, insert the guide rod into the round side of the hole in the guide rod link, ensure the slots of the guide rod are aligned with the narrow side of the hole in the guide rod link, and slide the end of the guide rod into the narrow side of the hole. Refer to Figure 9.

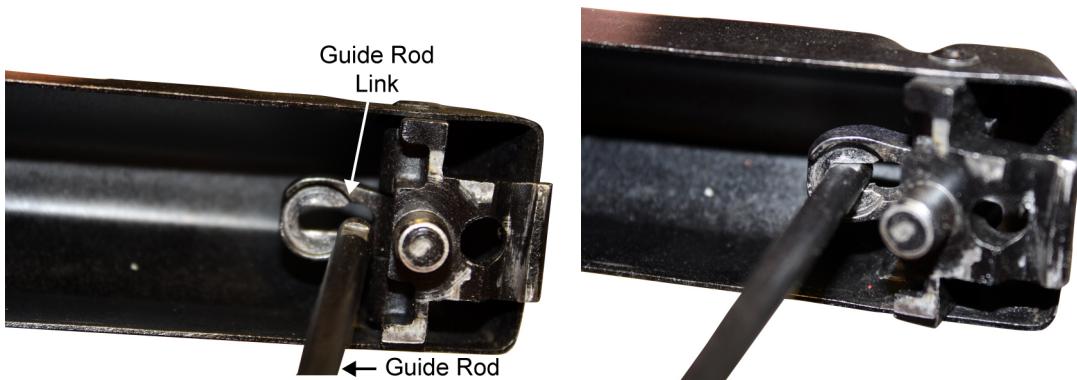


Figure 9. Insert the Guide Rod into the Guide Rod Link and Slide it into the Narrow Side of the Hole.

5. Install the front recoil spring onto the guide rod bushing. Refer to Figure 10.

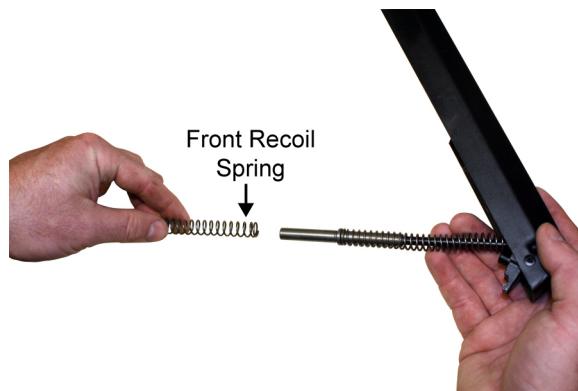


Figure 10. Install the Front Recoil Spring.

END OF WORK PACKAGE

REASSEMBLY OF THE WEAPON

THIS WORK PACKAGE COVERS

Reassembly.

INITIAL SETUP**Maintenance Level**

Organizational

Equipment Conditions

Weapon disassembled (WP 0010 00)

References

WP 0010 00

WP 0019 00

TM 8370-50097-OR/15

**WARNING**

DO NOT interchange bolt assemblies from one weapon to another without checking for proper headspace. Failure to follow this warning may result in injury or death to personnel.

REASSEMBLY

Refer to Figure 1.

1. Refer to TM 8370-50097-OR/15.
2. Slide the gas piston into the gas tube.
3. Install the operating rod and operating rod spring into the receiver.
4. Install the handguards on either side of the receiver, slide the handguard retaining ring over the handguard, and rotate the handguard retaining latch closed.
5. Install the trigger mechanism onto the bottom of the receiver and install the selector lever to secure it in place.
6. Install the bolt carrier group onto the receiver and slide it forward.
7. Install the top cover onto the receiver, and rotate the top cover latch closed.
8. Install the PSO-1 telescopic sight and secure with the locking lever.
9. Function check the weapon. Refer to WP 0019 00.

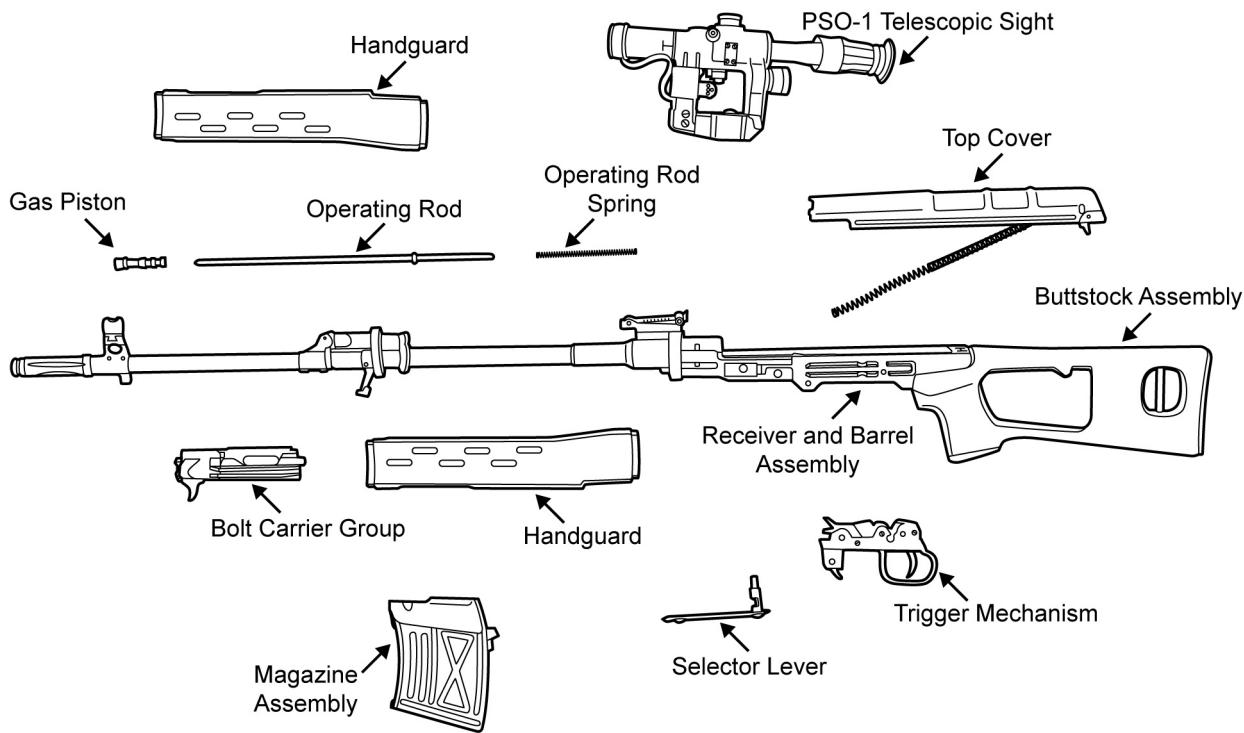


Figure 1. Major Components of the SVD Sniper Rifle.

END OF WORK PACKAGE

MAGAZINE ASSEMBLY

THIS WORK PACKAGE COVERS

Disassembly, Cleaning, Inspection and Repair, Lubrication, and Reassembly.

INITIAL SETUP**Maintenance Level**

Organizational

References

TM 8370-50097-OR/15

Equipment ConditionsMagazine removed
(TM 8370-50097-OR/15)

DISASSEMBLY

1. With a punch, depress the magazine retaining tab protruding through the floor plate at the bottom of the magazine. Refer to Figure 1.



Figure 1. Depress the Retaining Tab.

2. Slide the floor plate forward while depressing the retaining tab.

**WARNING**

The magazine spring is under pressure.

3. While cupping a hand over the bottom of the magazine, remove the floor plate.

**WARNING**

The magazine spring is under pressure.

4. Remove the spring plate, magazine spring, and follower. Refer to Figure 2.

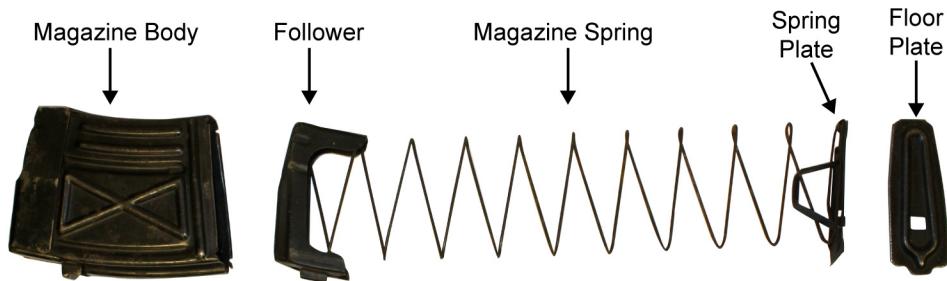


Figure 2. Magazine Components Disassembled.

CLEANING

Clean and remove all carbon deposits. Refer to TM 8370-50097-OR/15.

INSPECTION AND REPAIR

1. Ensure the magazine lips are not broken or deformed. Replace if unserviceable.
2. Ensure all components are not cracked, rusted, or dented. Replace if unserviceable.
3. Check the magazine spring for spring tension. Replace if unserviceable.

LUBRICATION

Lightly lubricate all metal components. Refer to TM 8370-50097-OR/15.

REASSEMBLY

1. With the hump of the follower on the left side of the magazine insert the follower, magazine spring, and spring plate into the bottom of the magazine. Slide the floor plate, from front to rear, onto the magazine. Ensure the retaining tab snaps through the hole in the bottom of the floor plate. Refer to Figure 3.

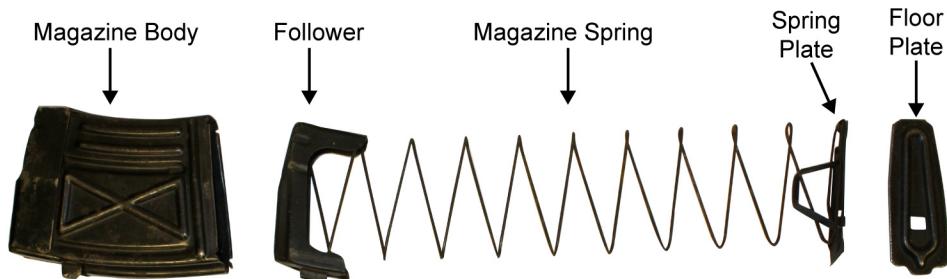


Figure 3. Magazine Components.

END OF WORK PACKAGE

FUNCTION CHECK

THIS WORK PACKAGE COVERS

Function Check.

INITIAL SETUP**Maintenance level**

Organizational

References

TM 8370-50097-OR/15

Equipment Conditions

Weapon cleared (TM 8370-50097-OR/15)

**WARNING**

Ensure the weapon is clear prior to performing the following function check. Refer to TM 8370-50097-OR/15. If the weapon fails any part of the following function check, continued use may cause injury or death to personnel.

FUNCTION CHECK

This section contains instructions for checking the functions of the SVD sniper rifle.

1. With the bolt closed on an EMPTY chamber, place the weapon on SAFE, as shown in Figure 1.



Figure 1. Weapon on SAFE.



If the trigger is hard (heavy) or very easy (light) to pull, replace the springs or hammer. Failure to follow this warning may cause injury or death to personnel.

2. Pull the trigger. The hammer should not fall.
3. Place the selector lever on SEMI, as shown in Figure 2.



Figure 2. Weapon on SEMI.

4. Pull and hold the trigger to the rear. The hammer should fall.
5. While continuing to hold the trigger to the rear, charge the weapon.
6. Slowly release the trigger. An audible “click” should be heard. The hammer should not fall.
7. Pull trigger. The hammer should fall.
8. Attempt to place on SAFE.
9. Weapon should go on SAFE.

END OF WORK PACKAGE

STOWAGE

THIS WORK PACKAGE COVERS

Stowage.

INITIAL SETUP**Maintenance Level****References**

Organizational

TM 8370-50097-OR/15

**WARNING**

Before stowing a weapon, be sure to clear the weapon (TM 8370-50097-OR/15). Inspect the chamber to ensure it is empty and that no ammunition is in position to be chambered. Failure to follow this warning may cause injury or death to personnel.

STOWAGE

Prior to stowing the weapon in the arms room, perform the following procedures:

1. Clear weapon.
2. Place selector lever in SEMI position.
3. Pull trigger. Hammer should fall.
4. Place weapon on SAFE.
5. Place weapon on rack.

END OF WORK PACKAGE

INTENTIONALLY BLANK

PREPARATION FOR STORAGE AND SHIPMENT

THIS WORK PACKAGE COVERS

Storage Procedures.

INITIAL SETUP**Maintenance Level**

Organizational

References

TM 8370-50097-OR/15

MCO P4450.7

WP 0009 00

Materials/Parts

Cleaner, Lubricant, and Preservative (CLP)

Equipment Conditions

Weapon cleared (TM 8370-50097-OR/15)

STORAGE PROCEDURES**WARNING**

DO NOT store the weapon with live ammunition in either the chamber or magazine. Always assume every weapon is loaded until it is determined through visual and physical inspection that it is not. Procedures for clearing and unloading the weapon are outlined in TM 8370-50097-OR/15. Failure to follow these warnings may cause injury or death to personnel.

1. **Storage Procedures.**
 - a. Ensure the chamber and magazine do not contain live ammunition.
 - b. Inspect the bore and chamber and apply a medium coat of Cleaner, Lubricant, and Preservative (CLP).
 - c. Apply a light coat of CLP to all other metal surfaces of the weapon to provide extra lubrication and corrosion protection. Ensure the CLP does not come in contact with the telescopic lenses.
 - d. Wrap parts to protect from dust and dirt.
2. **Storage for Extended Periods.** When the weapon is to be stored for an extended period (greater than 90 days), follow the procedures outlined in MCO P4450.7, *Preparation for Storage*. Ensure that the weapon is thoroughly cleaned as outlined in WP 0009 00.

3. **Packaging.** If required, packaging for shipping/storage that will not exceed 90 days shall be done as follows:
 - a. Clean the weapon in accordance with WP 0009 00.
 - b. Wrap the weapon with MIL-B-12 waterproof material.
 - c. Place the weapon in a barrier bag MIL-B-117, Type I, Class C, or wrap it with MIL-B-121, Type I, Grade A, and seal with tape, PPP-T-76.
 - d. Place one or more of the item(s) in minimum size container. Block and brace the items in accordance with MIL-STD-1186. Cushion the weapon and similar weight items with PPP-C-843 and use PPP-B-320 as filler to create a tight pack.
 - (1) Fiberboard containers shall be in accordance with PPP-B-636 and may be Class Domestic. Gross weight and size of the material shall determine the grade of the fiberboard container. PPP-B-640 may also be used.
 - (2) Wood containers shall be in accordance with PPP-B-601 or PPP-B-621.
 - e. Equivalent materials may be used.
4. NSNs are not assigned to all the specific material. If it is necessary to specify an NSN in the TMs, the packing materials will have to be spared and part numbers and NSNs assigned.
5. The specifications used are:
 - a. MIL-B-117 - Bag, sleeve and tubing - interior packaging (NSN 8135-00-543-6574)
 - b. MIL-B-121 - Barrier material, greaseproof, waterproof, flexible (NSN 8135-00-753-4661)
 - c. MIL-STD-129 - Marking for shipment and storage
 - d. MIL-STD-1186 - Cushioning, anchoring, bracing, blocking and waterproofing with appropriate test methods
 - e. PPP-B-601 - Boxes, wood, cleated plywood
 - f. PPP-B-621 - Boxes, wood, nailed and locked - corner
 - g. PPP-B-636 - Boxes, shipping, fiberboard
 - h. PPP-B-640 - Boxes, fiberboard, corrugated, triple-wall
 - i. PPP-C-843 - Cushioning material, cellulosic
 - j. PPP-F-320 - Fiberboard, corrugated and solid sheet rock (container grade), and cut shapes
 - k. PPP-T-76 - Tape, packaging, paper.

END OF WORK PACKAGE

FINAL INSPECTION AND FUNCTION TEST

THIS WORK PACKAGE COVERS

Final Inspection and Function Test.

INITIAL SETUP**Maintenance Level**

Organizational

References

TM 8370-50097-OR/15

WP 0019 00

Tools and Special Tools

E7900 tool kit

SVD gage kit

Weapon Conditions

Weapon cleared (TM 8370-50097-OR/15)

**WARNING**

DO NOT keep live ammunition near the work area. Failure to follow this warning may cause injury or death to personnel.

FINAL INSPECTION

1. Visually inspect the general appearance of the weapon. The weapon should appear almost new. All metal surfaces should have a dull, rust- or corrosion-resistant finish with no burrs or deep scratches.
2. Visually inspect the barrel for serviceability. Check for the following:
 - a. The barrel must be straight, clean, and free of rust, powder fouling, bulges, and rings. Fine pitting is allowable.
 - b. Ensure that the barrel assembly does not rotate or move within the receiver.
 - c. Using moderate hand pressure, check for rotational movement of the front sight in relation to the barrel. If movement between the front sight and barrel exists, the barrel must be replaced.
3. Visually inspect the weapon for missing parts. All parts must be securely attached and all modifications must be applied. Steel parts must be rust-free. Spring pins must be secure and screws must be tight.
4. Functionally inspect the bolt carrier group, using the following procedures:
 - a. Charge the weapon with a fluid motion, ensuring that the bolt carrier does not get stuck to the rear.
 - b. Ensure that the bolt locks and unlocks freely.

5. Function check the weapon with the selector lever set in the SAFE and SEMI positions. Any portion of this check may be used alone to determine the operating condition of any specific firing position selected.
6. Check the rear sight assembly as follows:
 - a. Ensure that the leaf spring has positive tension on the rear sight assembly.
 - b. Ensure that the elevation slide clicks into place on the sight leaf.
7. Perform the following additional checks:
 - a. Check headspace using the headspace "go" gage, P/N 1775041 (WP 0023 00), and the headspace "no-go" gage, P/N 1775042 (WP 0023 00).
 - b. Check the firing pin hole using the plain plug "no-go" gage, P/N 1775053 (WP 0023 00).
 - c. Check firing pin protrusion using the firing pin protrusion gage, P/N 1775055 (WP 0023 00).
 - d. Check bore straightness using the bore straightness gage, P/N 1775014 (WP 0023 00).
 - e. Check for bore erosion using the bore erosion gage, P/N 1775046 (WP 0023 00).
 - f. Check the headspace rim using the headspace rim "go" gage, P/N 1775047 (WP 0023 00), and the headspace rim "no-go" gage, P/N 1775048 (WP 0023 00).
 - g. Press the magazine release to check for spring tension.
 - h. Inspect the front sight and rear sight. Ensure that proper adjustment is possible with each assembly.

FUNCTION TEST

Perform a function check. Refer to WP 0019 00.

END OF WORK PACKAGE

GAGING PROCEDURES

THIS WORK PACKAGE COVERS

Gaging.

INITIAL SETUP**Maintenance Level**

Organizational

References

TI 8005-24/20E
TM 8370-50097-OR/15
WP 0010 00

Tools and Special Tools

E7900 tool kit
SVD gage kit

Equipment Conditions

Top cover removed (WP 0010 00)
Bolt carrier group removed (WP 0010 00)

GAGING**NOTE**

Initial gaging is required upon receipt of the weapon. All weapons must be gaged at least once annually.

The gages in the SVD sniper rifle gage kit are precision tools. When using the gages, handle them with care and use LIGHT pressure to avoid damaging them.

Gaging requirements along with pre-fire inspection (PFI), in accordance with TI 8005-24/20E, are to be performed within 30 days of each live fire evolution. Refer to Figure 1.



Figure 1. SVD Gage Kit.

PLAIN PLUG “NO-GO” GAGE

The plain plug “no-go” gage checks for the out-of-round condition of the firing pin hole in the bolt face. Refer to Figure 2.



Figure 2. Plain Plug “No-Go” Gage.

1. Attempt to insert the plain plug “no-go” gage into the firing pin hole in the bolt face by slowly rotating the gage. Refer to Figure 3.



Figure 3. Plain Plug “No-Go” Gage in Firing Pin Hole.

2. If the plain plug “no-go” gage enters the firing pin hole at any point, and enters up to the notch on the pin of the plain plug “no-go” gage, the bolt is defective and needs to be replaced.

FIRING PIN PROTRUSION GAGE

The firing pin protrusion gage checks the firing pin protrusion from the bolt face. Refer to Figure 4.



Figure 4. Firing Pin Protrusion Gage.

1. With the rear of the bolt on a flat surface and firing pin installed, sweep the “go” side of the gage across the firing pin. The gage should run freely over the firing pin. If the gage catches on bolt or firing pin, regage with a different firing pin. If the bolt fails gaging again, replace the bolt. Refer to Figure 5.

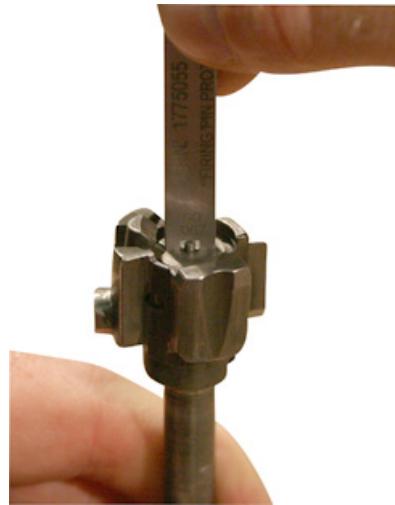


Figure 5. Using the “Go” Side of the Firing Pin Protrusion Gage.

2. With the rear of the bolt on a flat surface, sweep the “no-go” side of the gage across the firing pin. The gage should catch and not move freely over the pin. If the gage does not catch on the bolt or firing pin, regage with a different firing pin. If the bolt fails gaging again, replace the bolt. Refer to Figure 6.

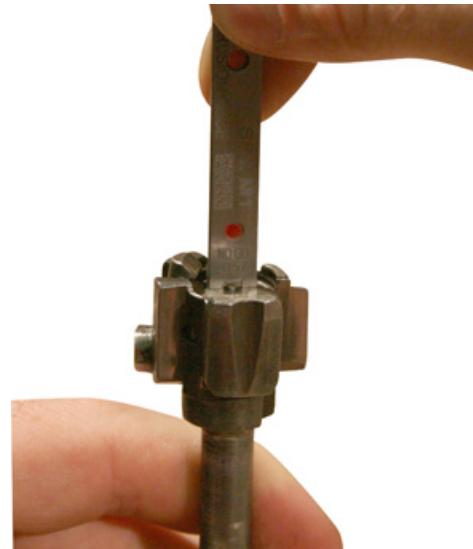


Figure 6. Using the “No-Go” Side of the Firing Pin Protrusion Gage.

BORE STRAIGHTNESS GAGE

Refer to Figure 7.



Figure 7. Bore Straightness Gage.

1. With the weapon vertical, muzzle down, place one hand under the muzzle to prevent the barrel straightness gage from hitting the deck and being damaged. Drop the bore straightness gage down through the barrel, catching it in hand. If the gage does not fall freely through the barrel, clean the barrel with a patch (TM 8370-50097-OR/15) and regage. If the barrel fails gaging a second time replace the weapon. Refer to Figure 8.



Figure 8. Dropping the Bore Straightness Gage Through the Barrel.

2. The barrel straightness gage should pass freely through the muzzle. Refer to Figure 9.



Figure 9. Barrel Straightness Gage Through the Muzzle.

BORE EROSION GAGE

Refer to Figure 10.



Figure 10. Bore Erosion Gage.

1. Lightly push the bore erosion gage into the barrel until it seats in the bore. Refer to Figure 11.



Figure 11. Insert the Bore Erosion Gage.

2. The first line of the bore erosion gage is the warning line. If the warning line on the bore erosion gage enters the chamber, more frequent gaging should be conducted. Refer to Figure 12.
3. The second line of the bore erosion gage is the reject line. If the reject line of the bore erosion gage enters the chamber, the barrel is defective and the weapon needs to be replaced. Refer to Figure 12.

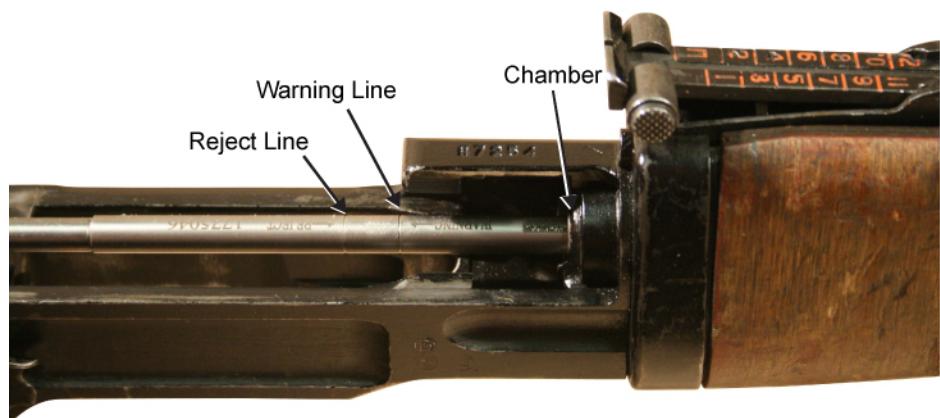


Figure 12. Bore Erosion Gage Warning Line, Reject Line, and Chamber.

HEADSPACE “GO” GAGE

Refer to Figure 13.

CAUTION

When pushing the bolt closed during headspace gaging, be sure to use LIGHT pressure. Failure to do so may damage the weapon or gage.



Figure 13. Headspace “Go” Gage.

1. Insert the headspace “go” gage into the chamber, ensuring the gage is fully seated in the chamber. Refer to Figure 14.



Figure 14. Insert the Headspace “Go” Gage into the Chamber.

2. Slide the bolt carrier group forward on the receiver. Refer to Figure 15.



Figure 15. Slide the Bolt Carrier Group Forward on the Receiver.

3. Using LIGHT pressure, push the bolt carrier forward. The bolt should lock on the headspace “go” gage. If the bolt does not lock, replace the bolt and regage. If the second bolt does not lock, the bolt is defective, replace the weapon.

HEADSPACE “NO-GO” GAGE

Refer to Figure 16.

CAUTION

When pushing the bolt closed during headspace gaging, be sure to use LIGHT pressure. Failure to do so may damage the weapon or gage.



Figure 16. Headspace “No-Go” Gage.

1. Insert the headspace “no-go” gage into the chamber, ensuring the gage is fully seated in the chamber. Refer to Figure 17.



Figure 17. Insert the Headspace “No-Go” Gage into the Chamber.

2. Slide the bolt carrier group forward on the receiver. Refer to Figure 18.



Figure 18. Slide the Bolt Carrier Group Forward on the Receiver.

3. Using LIGHT pressure, push the bolt carrier forward. The bolt should NOT lock on the headspace "no-go" gage. If the bolt locks, replace the bolt and regage. If the second bolt locks, the barrel is defective, replace the weapon.

HEADSPACE RIM "GO" GAGE

Refer to Figure 19.

CAUTION

DO NOT put the headspace rim gage in the chamber.

When pushing the bolt closed during headspace gaging, be sure to use LIGHT pressure. Failure to do so may damage the weapon or gage.



Figure 19. Headspace Rim "Go" Gage.

1. Bring the bolt to the rear without bolt face passing the ejector.
2. Insert the headspace rim "go" gage onto the bolt face, under the extractor.
3. Slide the bolt carrier group forward on the receiver.
4. Using LIGHT pressure, push the bolt carrier forward. The bolt should lock on the headspace rim "go" gage. If the bolt does not lock, replace the bolt and regage. If the second bolt does not lock, the barrel is defective, replace the weapon.

HEADSPACE RIM “NO-GO” GAGE

Refer to Figure 20.

CAUTION

DO NOT put the headspace rim gage in the chamber.

When pushing the bolt closed during headspace gaging, be sure to use LIGHT pressure. Failure to do so may damage the weapon or gage.



Figure 20. Headspace Rim “No-Go” Gage.

1. Bring the bolt to the rear without bolt face passing the ejector.
2. Insert the headspace rim “no-go” gage onto the bolt face, under the extractor.
3. Slide the bolt carrier group forward on the receiver.
4. Using LIGHT pressure, push the bolt carrier forward. The bolt should NOT lock on the headspace rim“no-go” gage. If the bolt locks, replace the bolt and regage. If the second bolt locks, the barrel is defective, replace the weapon.

END OF WORK PACKAGE

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CHAPTER 4
AUXILIARY EQUIPMENT

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AUXILIARY EQUIPMENT - GENERAL

GENERAL

The following auxiliary equipment item is used in conjunction with the SVD sniper rifle:

1. Sling. Refer to Figure 1.



Figure 1. Sling

2. Telescopic sight. Refer to Figure 2.

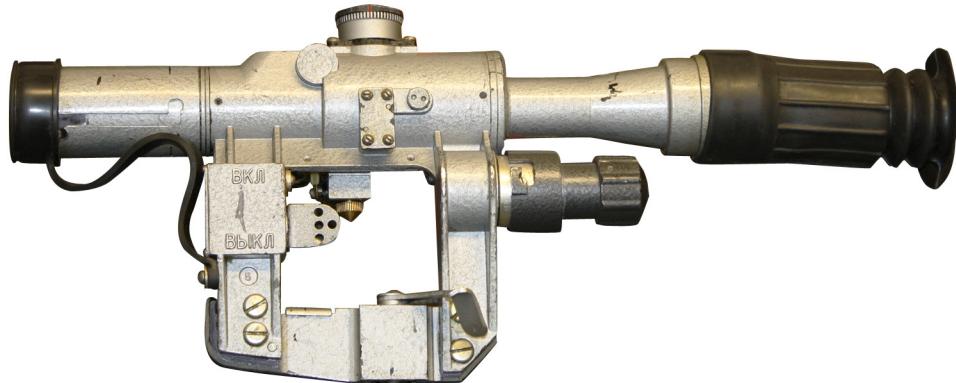


Figure 2. Telescopic Sight.

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CHAPTER 5
SUPPORTING INFORMATION

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REFERENCES

SCOPE

This work package lists all forms, field manuals, technical manuals, tables, regulations, standards, and miscellaneous publications referenced in this manual.

TECHNICAL BULLETINS/INSTRUCTION MANUALS/ORDERS

| | |
|--|---------------------|
| Preparation for Storage | MCO P4450.7 |
| Ammunition and Explosives Safety Standards..... | PAM 385-64 |
| Prefire Inspection, Small Arms Weapons, Ordnance Material | TI 8005-24/20E |
| Organizational Corrosion Prevention and Control Procedures for USMC Equipment | TM 4795-12/1 |
| Ground Equipment Record Procedures | TM 4700-15/1 |
| Procedures for Destruction of Equipment..... | TM 750-244-7 |
| Materials Used for Cleaning, Preserving, Abrading, and Cementing Ordnance Materiel and Related Material Including Chemicals | TM 9-247 |
| Operator's Manual for Sniper Rifle, 7.62 x 54R MM, SVD..... | TM 8370-50097-OR/15 |

FORMS

| | |
|---|-------------|
| Weapons Custody Receipt Card | NAVMC 10520 |
| Memorandum Receipt for Individual Weapons and Accessories | NAVMC 10576 |
| Recommended Changes to Technical Publications | NAVMC 10772 |
| Report of Discrepancy | SF 364 |

END OF WORK PACKAGE

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EXPENDABLE AND DURABLE ITEMS LIST**SCOPE**

This work package lists the expendable and durable items that are needed to operate and maintain the 7.62 x 54R mm SVD sniper rifle.

EXPLANATION OF COLUMNS

1. **Column (1) - Item Number.** This number is assigned to the entry in the list and is referenced in the narrative instructions to identify the item.
2. **Column (2) - National Stock Number.** This is the NSN assigned to an item and is used when requisitioning the item.
3. **Column (3) - Description, Commercial and Government Entity Code (CAGEC), and Part Number.** This provides other information that may be needed to identify the item.
4. **Column (4) - Unit of Measure (U/M).** This code shows the physical measurement or count of an item, such as pint (PT), gallon (GL), ounce (OZ), pair (PR), each (EA), bottle (BT), package (PG), book (BK), sheet (SH), can (CN), container (CO), or bale (BE).

Table 1. Expendable and Durable Items List for the SVD Sniper Rifle.

| (1) Item Number | (2) National Stock Number (NSN) | (3) Description, CAGEC, and Part Number | (4) U/M |
|-----------------------|--|---|----------------|
| 1 | 7920-00-018-3581 | Brush, cleaning, tools and parts | EA |
| 2 | 6850-00-965-2332 | Carbon removing compound | CN |
| 3 | 9150-01-079-6124 9150-01-054-6453 9150-01-053-6688 | Cleaner, Lubricant, and Preservative (CLP) CLP - 4 oz (118.30 mL) bottle CLP - 1 pt (0.47 L) bottle CLP - 1 gal (3.78 L) can | BT PT GL |
| 4 | 9920-00-292-9946 | Cleaner, tobacco pipe, cotton turf, wire core, dills pipe cleaner (36 per package) | BX |
| 5 | 5350-00-221-0872 | Cloth, abrasive | PG |
| 6 | 8415-00-823-7458 8415-00-823-7459 8415-00-823-7460 | Gloves, chemical and oil protective Size 9 Size 10 Size 11 | PR PR PR |
| 7 | 9150-01-260-2534 | Lubricant, solid film 16 oz (473.18 mL) spray can | CN |
| 8 | 9150-00-292-9689 | Lubricant, Arctic, Weapons (LAW) 1 qt (0.95 L) can | QT |

Table 1. Expendable and Durable Items for the SVD Sniper Rifle - Continued.

| (1) Item Number | (2) National Stock Number (NSN) | (3) Description, CAGEC, and Part Number | (4) U/M | |
|-----------------------|---------------------------------------|---|---|----------------------|
| 9 | | Lubricating oil, Semi-fluid, Automatic weapons, (LSA) 9150-00-935-6597 9150-00-889-3522 9150-00-687-4241 9150-00-753-4686 | 2 oz (59.15 mL) plastic bottle 4 oz (118.30 mL) plastic bottle 1 qt (0.95 L) can 1 gal. (3.79 L) can | BT BT QT GL |
| 10 | 3990-00-795-3595 | Pan, wash (box, tote) | EA | |
| 11 | 6850-00-826-0981 | Inspection penetrant kit | KT | |
| 12 | 7290-00-205-1711 | Rag, wiping 50 lb (22.68 kg) bale | BE | |
| 13 | 6850-00-281-1985 | Solvent, dry cleaning 1 gal. (3.79 L) can | BX | |
| 14 | | Solvent, general MIL-PRF-680 Type II 6850-01-474-2319 6850-01-474-2317 6850-01-474-2316 | GL CO DR | |
| 15 | 1005-00-288-3565 | Swab, cleaning, small arms (7.62 mm patch) | PG | |

END OF WORK PACKAGE

TOOL IDENTIFICATION LIST (INCLUDES SPECIAL TOOLS)

SCOPE

This work package lists the common tools and special tools authorized for support of the 7.62 x 54R mm SVD sniper rifle.

EXPLANATION OF COLUMNS

1. **Column (1) - Item Number.** This column indicates the number of the figure, if available, that shows the item.
2. **Column (2) - Item Name.** This column lists the item by noun nomenclature and other descriptive features.
3. **Column (3) - National Stock Number (NSN).** This column lists the NSN assigned to an item and is used when requisitioning the item.
4. **Column (4) - Part Number/CAGEC.** This column indicates the primary number used by the manufacturer which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.
5. **Column (5) - Unit of Measure (U/M).** This column shows the count of an item when issued, such as each (EA), kit, (KT), package (PG), book (BK), or bale (BE).

Table 1. Tools Identification List for the SVD Sniper Rifle.

| (1) Item Number | (2) Item Name | (3) National Stock Number (NSN) | (4) Part Number/ CAGEC | (5) U/M |
|-----------------------|-----------------------------|------------------------------------|------------------------------|------------|
| 1 | Gage kit, SVD | TBD | N/A | KT |
| 2 | Gage, bore erosion | TBD | 1775046/19204 | EA |
| 3 | Gage, bore straightness | TBD | 1775014/19204 | EA |
| 4 | Gage, firing pin protrusion | TBD | 1775055/19204 | EA |
| 5 | Gage, headspace "go" | TBD | 1775041/19204 | EA |
| 6 | Gage, headspace "no-go" | TBD | 1775042/19204 | EA |
| 7 | Gage, headspace rim "go" | TBD | 1775047/19204 | EA |
| 8 | Gage, headspace rim "no-go" | TBD | 1775048/19204 | EA |
| 9 | Gage, plain plug "no-go" | TBD | 1775053/19204 | EA |
| 10 | Tool kit, USMC E7900 | 5180-01-504-5663 | TK-2111/19204 | EA |

Figures 1 through 8 represent items 1 through 11 listed in Table 1.



Figure 1. Gage Kit, SVD Sniper Rifle.



Figure 2. Gage, Bore Erosion (1775046).



Figure 3. Gage, Bore Straightness (1775014).



Figure 4. Gage, Firing Pin Protrusion (1775055).



Figure 5. Gage, Headspace "Go" (1775041).



Figure 6. Gage, Headspace "No-Go" (1775042).



Figure 7. Gage, Headspace Rim "Go" (1775047).



Figure 8. Gage, Headspace Rim "No-Go" (1775048).



Figure 9. Gage, Plain Plug "No-Go" (1775053).

END OF WORK PACKAGE

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REPAIR PARTS LIST (RPL) INTRODUCTION

SCOPE

This repair parts list (RPL) authorizes spares, repair parts, and other special support equipment required for the performance of organizational maintenance of the 7.62 x 54R mm SVD sniper rifle. It authorizes the requisitioning, issue, and disposition of spares and repair parts indicated by the source, maintenance, and recoverability (SMR) codes. Parts lists are composed of functional groups listed in figure and item number sequence.

EXPLANATION OF COLUMNS

1. **Item No. (Column 1)**. The item number indicates the number used to identify items called out in an illustration.
2. **SMR Code (Column 2)**. The SMR code is a five-position code containing supply and requisition information, maintenance level authorization criteria, and disposition instructions as shown in the following manner. Refer to Table 1 for an explanation of the five positions in the SMR code. Refer to Tables 2-5 for explanations of the source codes, maintenance codes, and recoverability codes that make up the SMR code.

Table 1. SMR Code Positions.

| Source Code | Maintenance Code | Recoverability Code |
|---|---|---|
| XX 1st and 2nd positions How to obtain an item. | X 3rd position Who can install, replace, or use the item. | X 4th position Who can perform repair* on the item. |

NOTE

Complete repair: maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the repair function in a user environment in order to restore serviceability to a failed item.

- a. **Source Code.** The source code indicates how to obtain an item needed for maintenance, repair, or overhaul of equipment and is entered in the first and second positions of the SMR code as shown in Table 2.

Table 2. Source Codes.

| Code | Application/Explanation |
|------|--|
| PA | Item: Stocked |
| PB | Item: Stocked, insurance |
| PC | Item: Stocked, deteriorative |
| PD | Item: Support, initial issue or outfitting and stocking only for additional initial issue. |
| PE | Equip: Support, stocked, initial issue, or outfitting of specified maintenance activities (also used for "special tools"). |
| PF | Equip: Support, non-stocked, and centrally procured on demand. |
| PG | Item: Stocked, for sustained support, uneconomical to produce at later time. |

Table 2. Source Codes - Continued.

| Code | Application/Explanation |
|----------------------------|---|
| KD KF KB | Items with these codes are not to be requested/requisitioned individually. These items are part of a kit authorized to the maintenance level indicated in the 3rd position of the SMR code. The complete kit must be requisitioned and applied for this weapon. |
| MO MF MH ML MD | Items with these codes are not to be requisitioned individually. They must be made from bulk material identified by the part number in the description column. No bulk material items are applicable for this weapon. |
| AO AF AH AD | Items with these codes are not to be requested/requisitioned individually. The parts that make the assembled items must be requisitioned, fabricated, or assembled at the level of maintenance indicated by source code. If the 3rd position code of the SMR code authorizes the item to be replaced, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance. |
| XA | Do not requisition a XA-coded item. Order its next higher assembly. (Also refer to the NOTE below). |
| XB | If an XB item is not available from salvage, order it using the CAGEC and part number given. |
| XC | XC installation drawing, diagram, instruction sheet, and field service drawing identified by the manufacturer's part number. |
| XD | XD are items not stocked. Order an XD-coded item through normal supply channels using the CAGEC and part number given. |

NOTE

Cannibalizing or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those coded XA. Items coded PC are subject to deterioration.

b. **Maintenance Code.** The maintenance code indicates the levels of maintenance authorized to use and repair the support items. The maintenance codes are entered in the third and fourth positions of the SMR code format as follows:

- (1) The maintenance code entered in the third position indicates the lowest maintenance level authorized to remove, replace, and use an item. Refer to Table 3 for an explanation of the maintenance code that indicates the level of maintenance required.

Table 3. Third Position Maintenance Codes.

| Code | Application/Explanation |
|------|--|
| C | Crew or operator maintenance done within unit maintenance. |
| O | Organizational level can remove, replace, and use the item. |
| F | Third echelon can remove, replace, and use the item. |
| H | Fourth echelon can remove, replace, and use the item. |
| L | Specialized repair activity can remove, replace, and use the item. |
| D | Depot level can remove, replace, and use the item. |

(2) The maintenance code entered in the fourth position indicates whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions).

NOTE

Some limited repair may be done on the item at a lower level of maintenance, if authorized by the SMR codes.

Table 4. Fourth Position Maintenance Codes.

| Code | Application/Explanation |
|------|---|
| O | Organizational level is the lowest level that can completely repair the item. |
| F | Intermediate third echelon is the lowest level that can completely repair the item. |
| H | The lowest maintenance level capable of complete repair of the support item is the general support level. |
| D | Depot level is the lowest level that can completely repair the item. |
| L | Specialized repair activity (designated the specialized repair activity) is the lowest level that can completely repair the item. |
| Z | Non-repairable. No repair is authorized. |
| B | No repair authorized. No parts or special tools are authorized for maintenance of a B-coded item. However, the item may be reconditioned by adjusting or lubricating at the user level. |

c. **Recoverability Code.** The recoverability code is assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR code format. Refer to Table 5 for code explanations.

Table 5. Recoverability Codes.

| Code | Application/Explanation |
|------|--|
| Z | Non-repairable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of the SMR code. |
| O | Repairable item. When uneconomically repairable, condemn and dispose of at the organizational level. |
| F | Repairable item. When uneconomically repairable, condemn and dispose of at the third echelon level. |
| H | Repairable item. When uneconomically repairable, condemn and dispose of at the fourth echelon level. |
| D | Repairable item. When uneconomically repairable, condemn and dispose of at the depot level. |
| L | Repairable item. Condemnation and disposal not authorized below specialized repair activity. |
| A | Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, or hazardous material). Refer to the appropriate manuals/directives for specific instructions. |

3. **NSN (Column 3).** The national stock number for the item is listed in this column.
4. **CAGEC (Column 4).** The commercial and government entity code is a 5-digit code used to identify the manufacturer, distributor, or government activity that supplies the item.

5. **Part Number (Column 5).** Indicates the primary number used by the manufacturer that controls the design and characteristics of the items by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When an NSN is used to requisition an item, the item received may be a different part number from the part ordered.

6. **Item Identification (Column 6).** This column includes the following information:

- Federal item name and, when required, a minimum description identifying the items.
- The statement END OF FIGURE appears just below the last item description in columns 6 and 7 for a given figure.

7. **QTY (Column 7).** The quantity (QTY) column indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, sub-functional group, or an assembly. The letter V appearing in this column in lieu of a quantity indicates the quantity is variable and may vary from application to application.

HOW TO LOCATE REPAIR PARTS

WP 0029 00 contains the repair parts listings.

- Unknown national stock number (NSN) or part number.
 - Identify the item from the illustration and note the item number.
 - Look in the repair parts list (RPL) for the figure and item numbers. The NSNs and part numbers are on the same lines as the associated item numbers.
- Known NSN or part number.
 - Using the NSN or part number, locate the item in the RPL. Note the pertinent information.
 - Verify the identity of the item.

END OF WORK PACKAGE

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REPAIR PARTS LIST (RPL)

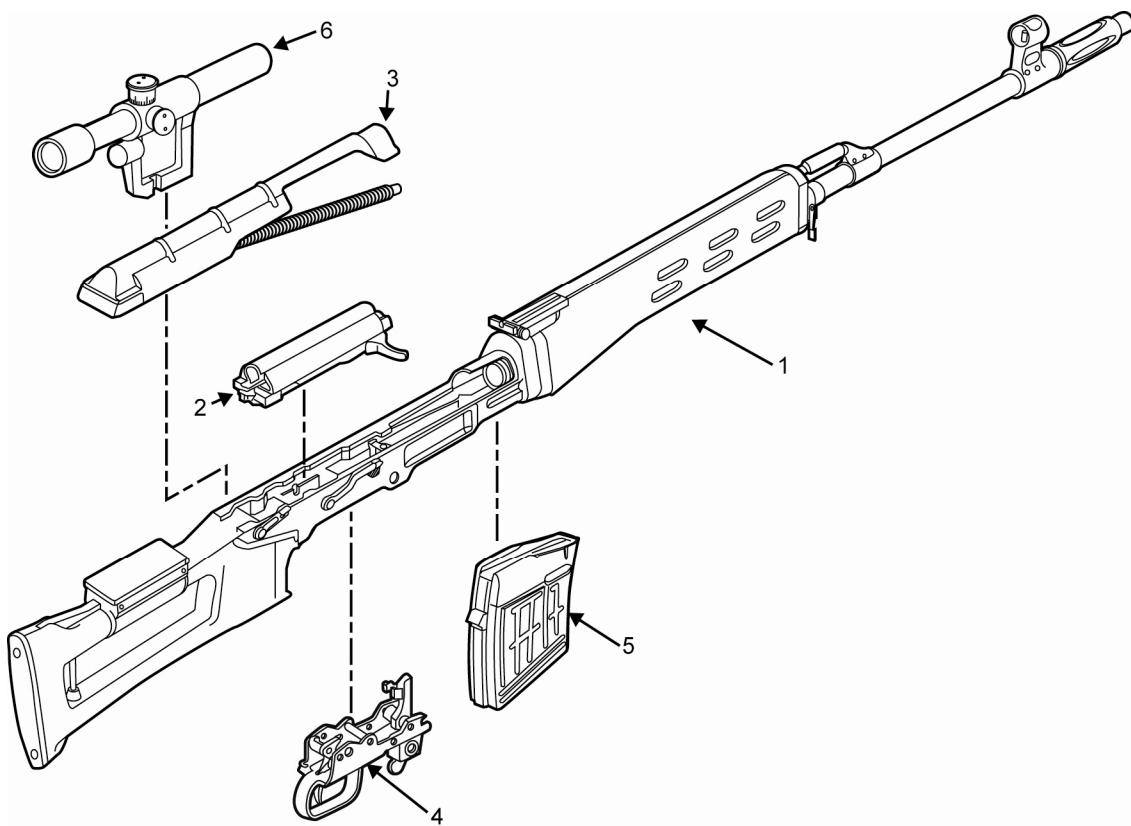


Figure 1. SVD Sniper Rifle.

Table 1. SVD Sniper Rifle.

| (1) Item No. | (2) SMR Code | (3) NSN | (4) CAGEC | (5) Part No. | (6) Description and Usable on Codes (UOC) | (7) Qty |
|--------------------------|-----------------|------------|--------------|-----------------|---|------------|
| Fig. 1. SVD Sniper Rifle | | | | | | |
| 1 | PAOZZ | TBD | TBD | TBD | Assembly, barrel and receiver See Figure 2 for breakdown | 1 |
| 2 | PAOZZ | TBD | TBD | TBD | Group, bolt carrier See Figure 3 for breakdown | 1 |
| 3 | PAOZZ | TBD | TBD | TBD | Assembly, top cover See Figure 4 for breakdown | 1 |
| 4 | PAOZZ | TBD | TBD | TBD | Mechanism, trigger See Figure 5 for breakdown | 1 |
| 5 | PAOZZ | TBD | TBD | TBD | Assembly, magazine See Figure 8 for breakdown | 1 |
| 6 | PAOZZ | TBD | TBD | TBD | Assembly, PSO-1 telescopic sight | 1 |
| End of Figure | | | | | | |

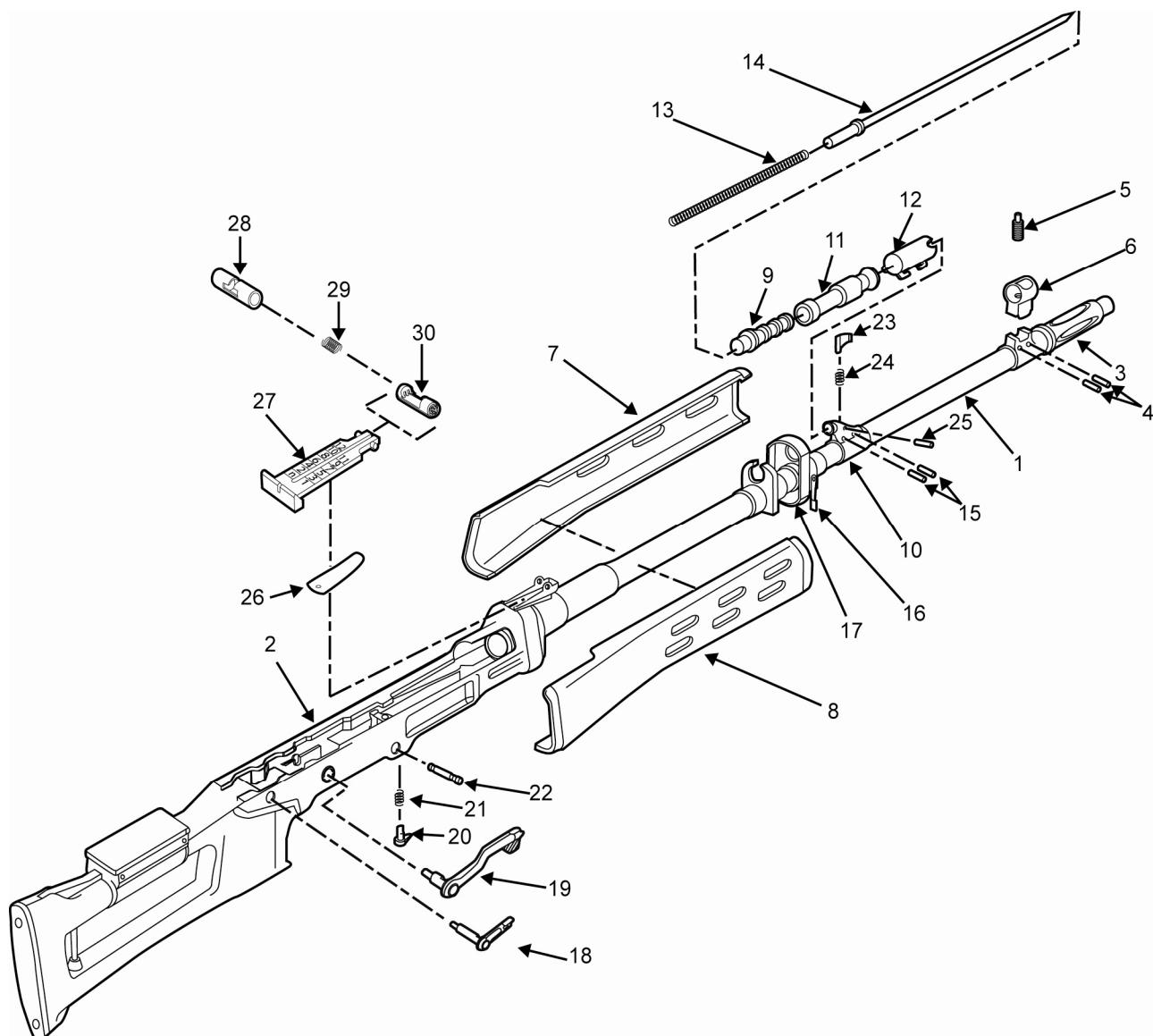


Figure 2. Receiver and Barrel Assembly.

Table 2. Receiver and Barrel Assembly.

| (1) Item No. | (2) SMR Code | (3) NSN | (4) CAGEC | (5) Part No. | (6) Description and Usable on Codes (UOC) | (7) Qty |
|---|--------------------|------------|--------------|-----------------|---|------------|
| Fig. 2. Receiver and Barrel Assembly | | | | | | |
| 1 | PAOZZ | TBD | TBD | TBD | Barrel | 1 |
| 2 | PAOZZ | TBD | TBD | TBD | Receiver | 1 |
| 3 | PAOZZ | TBD | TBD | TBD | Suppressor, flash | 1 |
| 4 | PAOZZ | TBD | TBD | TBD | Pin, press | 2 |
| 5 | PAOZZ | TBD | TBD | TBD | Post, front sight | 1 |
| 6 | PAOZZ | TBD | TBD | TBD | Sight, front aperture | 1 |
| 7 | PAOZZ | TBD | TBD | TBD | Handguard, left | 1 |
| 8 | PAOZZ | TBD | TBD | TBD | Handguard, right | 1 |
| 9 | PAOZZ | TBD | TBD | TBD | Piston, gas | 1 |
| 10 | PAOZZ | TBD | TBD | TBD | Block, gas | 1 |
| 11 | PAOZZ | TBD | TBD | TBD | Tube, gas | 1 |
| 12 | PAOZZ | TBD | TBD | TBD | Regulator, gas | 1 |
| 13 | PAOZZ | TBD | TBD | TBD | Spring, operating rod | 1 |
| 14 | PAOZZ | TBD | TBD | TBD | Rod, operating | 1 |
| 15 | PAOZZ | TBD | TBD | TBD | Pin, drift, gas regulator | 2 |
| 16 | PAOZZ | TBD | TBD | TBD | Lever, locking, handguard | 1 |
| 17 | PAOZZ | TBD | TBD | TBD | Ring, retaining, handguard | 1 |
| 18 | PAOZZ | TBD | TBD | TBD | Latch, top cover | 1 |
| 19 | PAOZZ | TBD | TBD | TBD | Lever, selector | 1 |
| 20 | PAOZZ | TBD | TBD | TBD | Catch, bolt | 1 |
| 21 | PAOZZ | TBD | TBD | TBD | Spring, bolt catch | 1 |
| 22 | PAOZZ | TBD | TBD | TBD | Pin, retaining, trigger mechanism | 1 |
| 23 | PAOZZ | TBD | TBD | TBD | Lever, locking, gas tube | 1 |
| 24 | PAOZZ | TBD | TBD | TBD | Spring, locking lever | 1 |
| 25 | PAOZZ | TBD | TBD | TBD | Pin, retaining, locking lever | 1 |
| 26 | PAOZZ | TBD | TBD | TBD | Spring, leaf, rear sight | 1 |
| 27 | PAOZZ | TBD | TBD | TBD | Leaf, sight, rear sight | 1 |
| 28 | PAOZZ | TBD | TBD | TBD | Slide, rear sight | 1 |
| 29 | PAOZZ | TBD | TBD | TBD | Spring, slide, rear sight | 1 |
| 30 | PAOZZ | TBD | TBD | TBD | Catch, slide, rear sight | 1 |
| End of Figure | | | | | | |

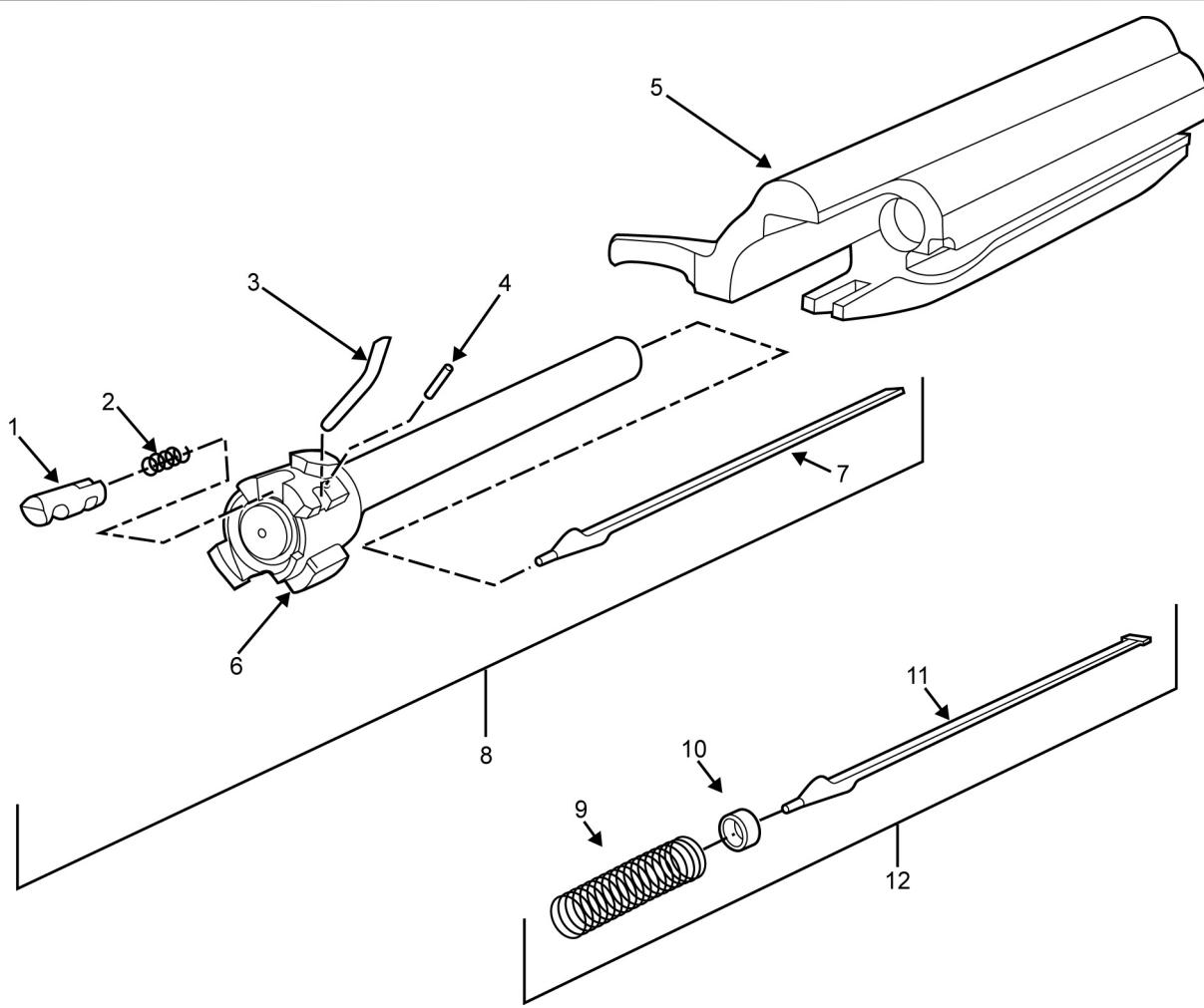


Figure 3. Bolt Carrier Group.

Table 3. Bolt Carrier Group.

| (1) Item No. | (2) SMR Code | (3) NSN | (4) CAGEC | (5) Part No. | (6) Description and Usable on Codes (UOC) | (7) Qty |
|----------------------------|-----------------|------------|--------------|-----------------|---|------------|
| Fig. 3. Bolt Carrier Group | | | | | | |
| 1 | PAOZZ | TBD | TBD | TBD | Extractor | 1 |
| 2 | PAOZZ | TBD | TBD | TBD | Spring, extractor | 1 |
| 3 | PAOZZ | TBD | TBD | TBD | Pin, retaining, extractor | 1 |
| 4 | PAOZZ | TBD | TBD | TBD | Pin, retaining, firing pin | 1 |
| 5 | PAOZZ | TBD | TBD | TBD | Carrier, bolt | 1 |
| 6 | PAOZZ | TBD | TBD | TBD | Bolt | 1 |
| 7 | PAOZZ | TBD | TBD | TBD | Pin, firing | 1 |
| 8 | PAOZZ | TBD | TBD | TBD | Assembly, bolt | 1 |
| 9 | PAOZZ | TBD | TBD | TBD | Spring, firing pin | V |
| 10 | PAOZZ | TBD | TBD | TBD | Sleeve, spring, firing pin | V |
| 11 | PAOZZ | TBD | TBD | TBD | Pin, firing (used with spring) | V |
| 12 | PAOZZ | TBD | TBD | TBD | Assembly, firing pin spring | V |
| End of Figure | | | | | | |

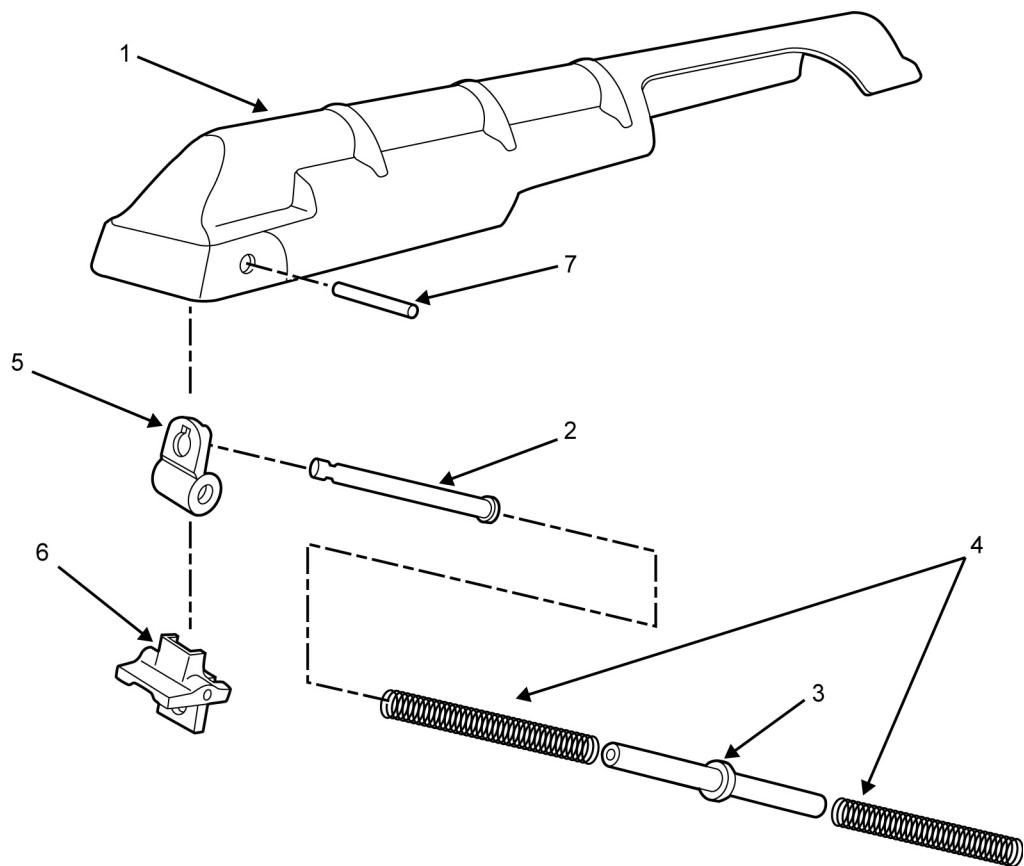


Figure 4. Top Cover Assembly.

Table 4. Top Cover Assembly.

| (1) Item No. | (2) SMR Code | (3) NSN | (4) CAGEC | (5) Part No. | (6) Description and Usable on Codes (UOC) | (7) Qty |
|----------------------------|-----------------|------------|--------------|-----------------|---|------------|
| Fig. 4. Top Cover Assembly | | | | | | |
| 1 | PAOZZ | TBD | TBD | TBD | Cover, top | 1 |
| 2 | PAOZZ | TBD | TBD | TBD | Rod, guide | 1 |
| 3 | PAOZZ | TBD | TBD | TBD | Bushing, guide rod | 1 |
| 4 | PAOZZ | TBD | TBD | TBD | Spring, recoil | 2 |
| 5 | PAOZZ | TBD | TBD | TBD | Link, guide rod | 1 |
| 6 | PAOZZ | TBD | TBD | TBD | Hinge, top cover | 1 |
| 7 | PAOZZ | TBD | TBD | TBD | Pin, link, guide rod | 1 |
| End of Figure | | | | | | |

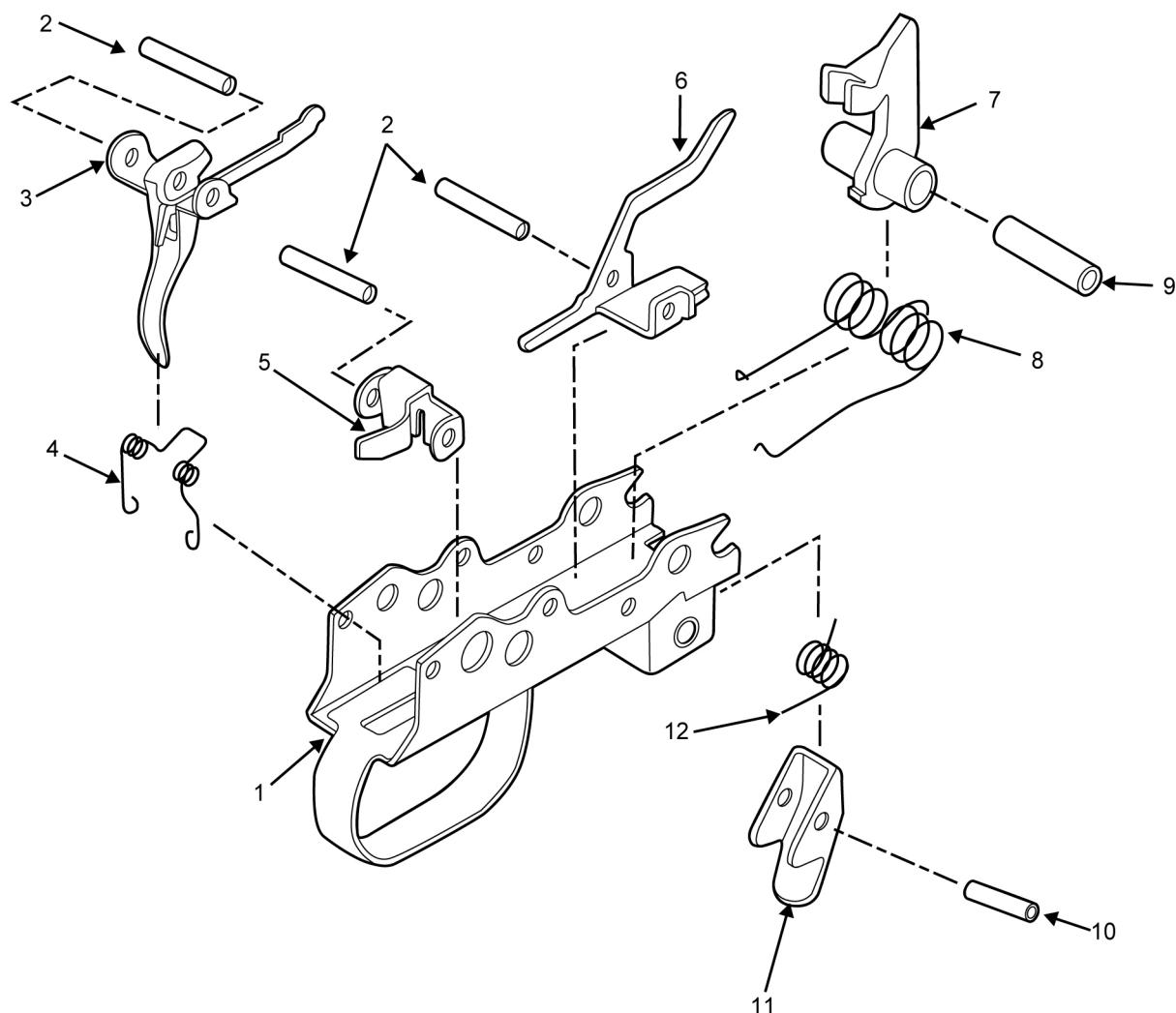


Figure 5. Trigger Mechanism.

Table 5. Trigger Mechanism.

| (1) Item No. | (2) SMR Code | (3) NSN | (4) CAGEC | (5) Part No. | (6) Description and Usable on Codes (UOC) | (7) Qty |
|---------------------------|-----------------|------------|--------------|-----------------|---|------------|
| Fig. 5. Trigger Mechanism | | | | | | |
| 1 | PAOZZ | TBD | TBD | TBD | Housing, trigger (flare pins) | 1 |
| | PAOZZ | TBD | TBD | TBD | Housing, trigger (key pins) (not pictured) | 1 |
| 2 | PAOZZ | TBD | TBD | TBD | Pin, retaining (flare) | 3 |
| | PAOZZ | TBD | TBD | TBD | Pin, retaining (key) (not pictured) | 3 |
| 3 | PAOZZ | TBD | TBD | TBD | Assembly, trigger | 1 |
| 4 | PAOZZ | TBD | TBD | TBD | Spring, trigger | 1 |
| 5 | PAOZZ | TBD | TBD | TBD | Sear | 1 |
| 6 | PAOZZ | TBD | TBD | TBD | Sear, safety | 1 |
| 7 | PAOZZ | TBD | TBD | TBD | Hammer | 1 |
| 8 | PAOZZ | TBD | TBD | TBD | Spring, main | 1 |
| 9 | PAOZZ | TBD | TBD | TBD | Pin, retaining, hammer | 1 |
| 10 | PAOZZ | TBD | TBD | TBD | Pin, retaining, magazine release | 1 |
| 11 | PAOZZ | TBD | TBD | TBD | Release, magazine | 1 |
| 12 | PAOZZ | TBD | TBD | TBD | Spring, magazine release | 1 |
| End of Figure | | | | | | |

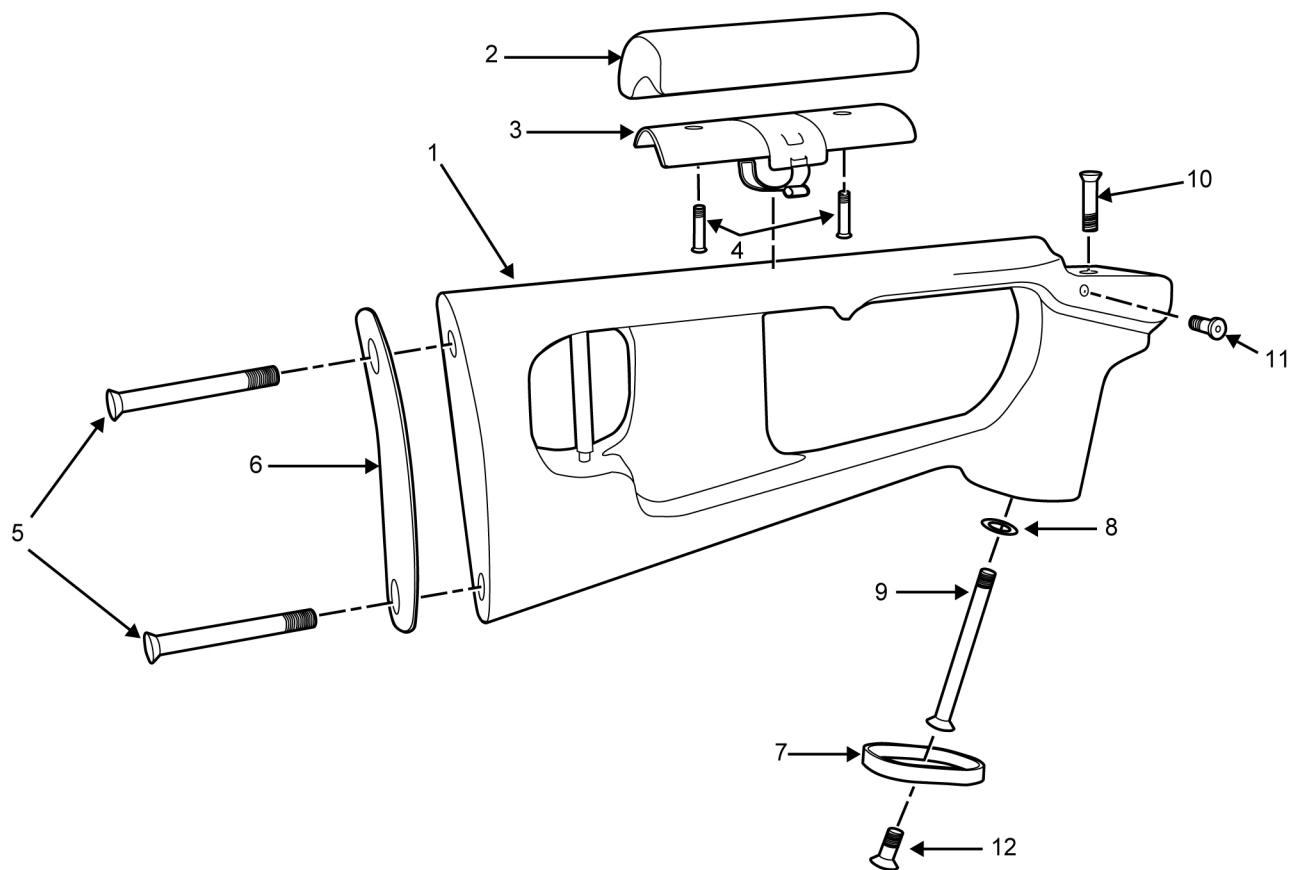


Figure 6. Wooden Buttstock Assembly.

Table 6. Wooden Buttstock Assembly.

| (1) Item No. | (2) SMR Code | (3) NSN | (4) CAGEC | (5) Part No. | (6) Description and Usable on Codes (UOC) | (7) Qty |
|--------------------------------------|-----------------|------------|--------------|-----------------|---|------------|
| Fig. 6. Wooden Buttstock Assembly | | | | | | |
| 1 | PAOZZ | TBD | TBD | TBD | Buttstock | 1 |
| 2 | PAOZZ | TBD | TBD | TBD | Pad, cheek | 1 |
| 3 | PAOZZ | TBD | TBD | TBD | Retaining band, pad, cheek | 1 |
| 4 | PAOZZ | TBD | TBD | TBD | Screw, pad, cheek | 2 |
| 5 | PAOZZ | TBD | TBD | TBD | Screw, buttplate | 2 |
| 6 | PAOZZ | TBD | TBD | TBD | Buttplate | 1 |
| 7 | PAOZZ | TBD | TBD | TBD | Cap, pistol grip | 1 |
| 8 | PAOZZ | TBD | TBD | TBD | Washer, pistol grip | 1 |
| 9 | PAOZZ | TBD | TBD | TBD | Screw, pistol grip | 1 |
| 10 | PAOZZ | TBD | TBD | TBD | Screw, top, pistol grip | 1 |
| 11 | PAOZZ | TBD | TBD | TBD | Screw, retaining, top cover latch | 1 |
| 12 | PAOZZ | TBD | TBD | TBD | Screw, pistol grip cap | 1 |
| End of Figure | | | | | | |

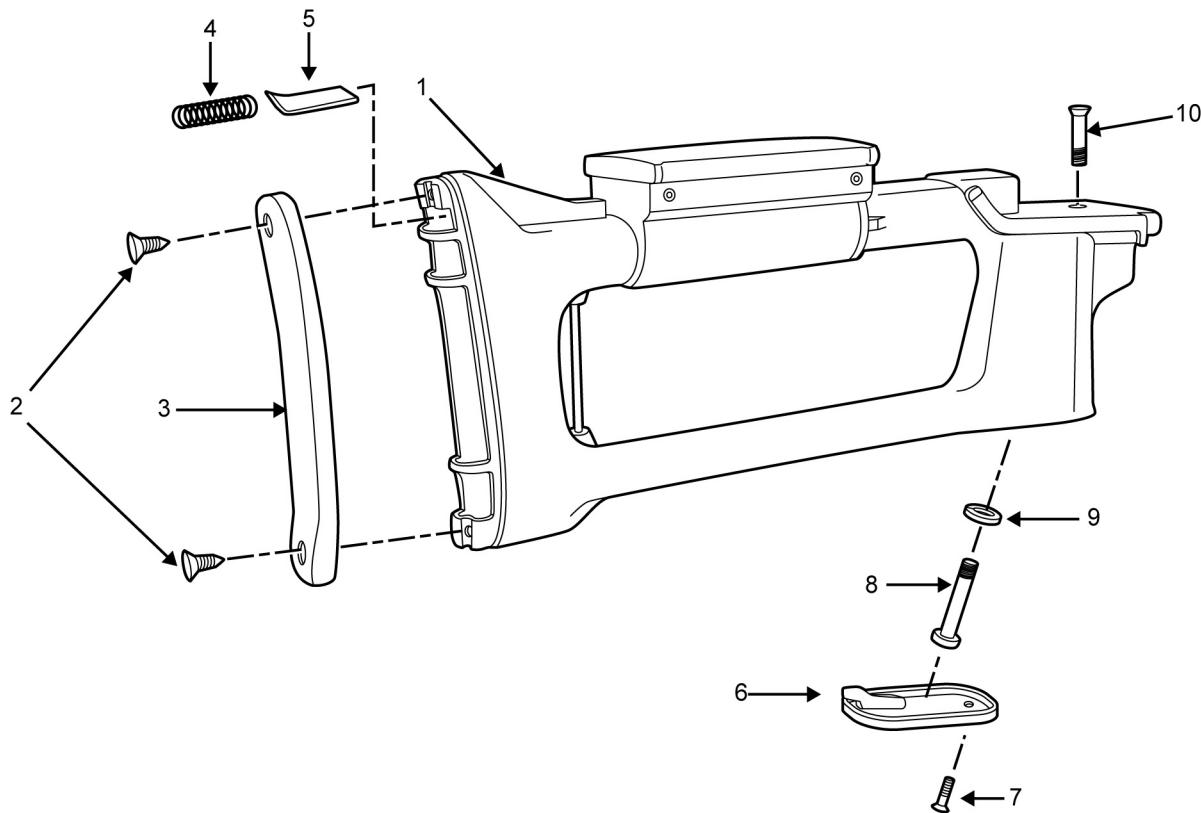


Figure 7. Synthetic Buttstock Assembly.

Table 7. Synthetic Buttstock Assembly.

| (1) Item No. | (2) SMR Code | (3) NSN | (4) CAGEC | (5) Part No. | (6) Description and Usable on Codes (UOC) | (7) Qty |
|---|-----------------|------------|--------------|-----------------|---|------------|
| Fig. 6. Synthetic Buttstock Assembly | | | | | | |
| 1 | PAOZZ | TBD | TBD | TBD | Buttstock | 1 |
| 2 | PAOZZ | TBD | TBD | TBD | Screw, buttplate | 2 |
| 3 | PAOZZ | TBD | TBD | TBD | Buttplate | 1 |
| 4 | PAOZZ | TBD | TBD | TBD | Spring, retention, cheek pad | 1 |
| 5 | PAOZZ | TBD | TBD | TBD | Tab, retention, cheek pad | 1 |
| 6 | PAOZZ | TBD | TBD | TBD | Cap, pistol grip | 1 |
| 7 | PAOZZ | TBD | TBD | TBD | Screw, cap, pistol grip | 1 |
| 8 | PAOZZ | TBD | TBD | TBD | Screw, pistol grip | 1 |
| 9 | PAOZZ | TBD | TBD | TBD | Washer, pistol grip | 1 |
| 10 | PAOZZ | TBD | TBD | TBD | Screw, top, pistol grip | 1 |
| End of Figure | | | | | | |

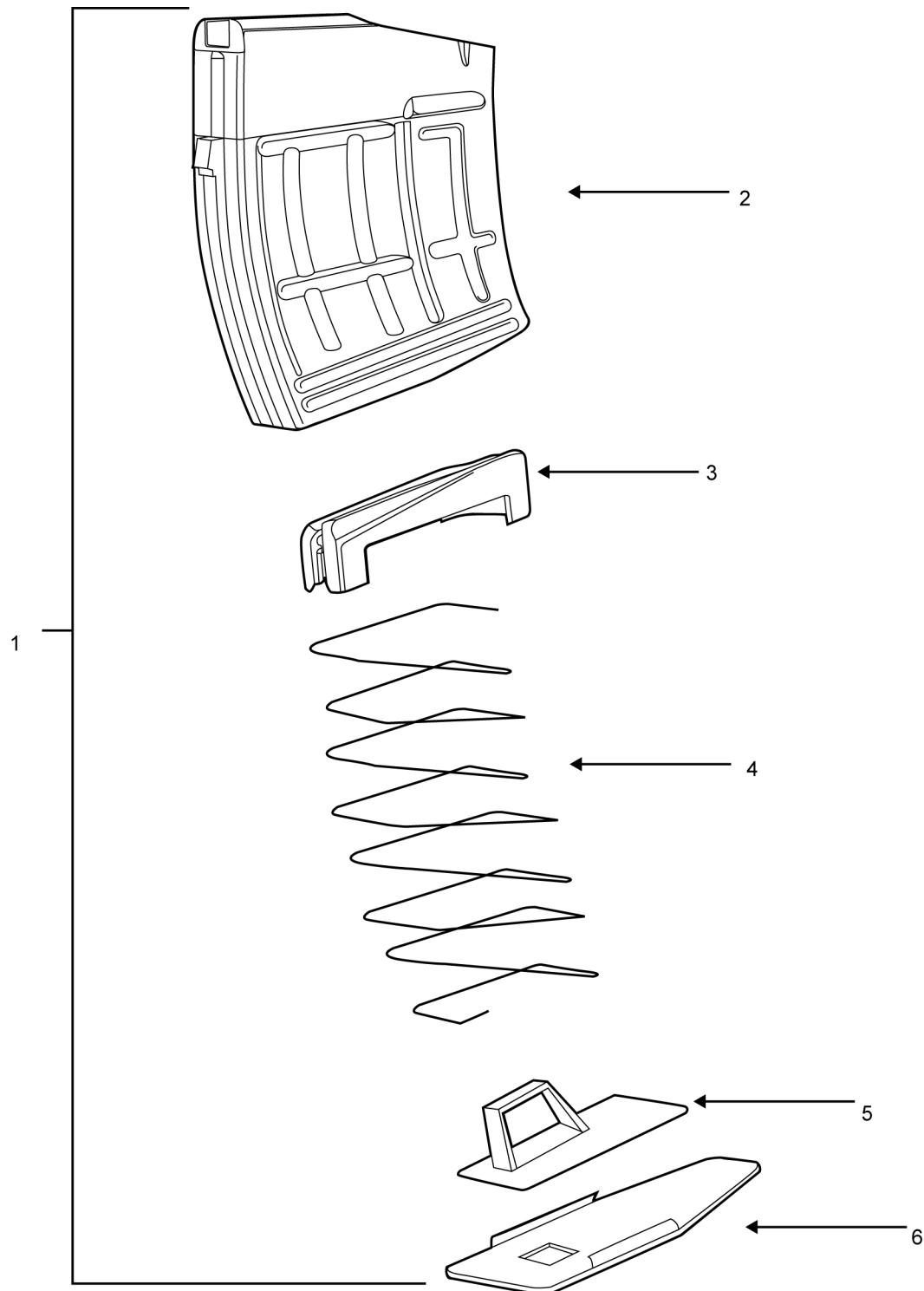


Figure 8. Magazine Assembly.

Table 8. Magazine Assembly.

| (1) Item No. | (2) SMR Code | (3) NSN | (4) CAGEC | (5) Part No. | (6) Description and Usable on Codes (UOC) | (7) Qty |
|---------------------------|-----------------|------------|--------------|-----------------|---|------------|
| Fig. 7. Magazine Assembly | | | | | | |
| 1 | PAOZZ | TBD | TBD | TBD | Assembly, magazine | 1 |
| 2 | PAOZZ | TBD | TBD | TBD | Body, magazine | 1 |
| 3 | PAOZZ | TBD | TBD | TBD | Follower | 1 |
| 4 | PAOZZ | TBD | TBD | TBD | Spring, magazine | 1 |
| 5 | PAOZZ | TBD | TBD | TBD | Plate, magazine spring | 1 |
| 6 | PAOZZ | TBD | TBD | TBD | Plate, floor | 1 |
| End of Figure | | | | | | |

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